EMAGIN CORP Form POS AM December 20, 2011

As filed with the Securities and Exchange Commission on December 20, 2011

Registration No. 333-144865

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

WASHINGTON D.C. 20549

POST-EFFECTIVE AMENDMENT NO. 1 TO FORM S-1

> REGISTRATION STATEMENT UNDER THE SECURITIES ACT OF 1933

eMagin Corporation (Name of small business issuer in its charter)

Delaware (State or other Jurisdiction of Incorporation or Organization) 3679

56-1764501

(Primary Standard Industrial Classification Code Number)

(I.R.S. Employer Identification No.)

3006 Northup Way, Suite 103, Bellevue, WA 98004 (425)-284-5200

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

Andrew G. Sculley, Chief Executive Officer eMagin Corporation 3006 Northup Way, Suite 103, Bellevue, WA 98004 (425)-284-5200

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

Copies to:

Richard A. Friedman, Esq.
Sichenzia Ross Friedman Ference LLP
61 Broadway, 32nd Flr.
New York, New York 10006
(212) 930-9700
(212) 930-9725 (fax)

APPROXIMATE DATE OF PROPOSED SALE TO THE PUBLIC:

From time to time after this Registration Statement becomes effective.

If any securities being registered on this Form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933, other than securities offered only in connection with dividend or interest

reinvestment plans, check the following box: o

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

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

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

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

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

Large accelerated	O	Accelerated Filer	O
filer			
Non-accelerated	O	Smaller reporting	þ
filer		company	

Note Regarding Registration Fees:

All fees for the registration of the shares registered on this Post-Effective Amendment No. 1 were paid upon the initial filing of the previously filed registration statements covering such shares. No additional shares are registered and accordingly, no additional fees are payable.

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

EXPLANATORY NOTE

This registration statement is filed by the registrant as a post-effective amendment on Form S-1 to update the Post-Effective Registration Statement on Form S-3 SEC file No 333-144865, as amended, which was declared effective by the Securities and Exchange Commission on September 22, 2010, and Registration Statement on Form S-3, File No. 333-168019 which was declared effective by the Securities and Exchange Commission on July 19, 2010. The registrant is not seeking to register any additional shares pursuant to this Registration Statement.

PRELIMINARY PROSPECTUS SUBJECT TO COMPLETION, DATED DECEMBER 20, 2011

eMagin Corporation

11,646,723 SHARES OF

COMMON STOCK

This prospectus relates to the resale by the selling stockholders of up to 11,646,723 shares of our common stock. The selling stockholders may sell common stock from time to time in the principal market on which the stock is traded at the prevailing market price or in negotiated transactions. We will pay the expenses of registering these shares.

Our common stock is listed on the NYSE AMEX under the symbol "EMAN". The last reported sales price per share of our common stock as reported by the NYSE AMEX December 15, 2011 was \$3.82.

Investing in these securities involves significant risks. See "Risk Factors" beginning on page 8.

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

The date of this prospectus is December _____, 2011

The information in this Prospectus is not complete and may be changed. This Prospectus is included in the Registration Statement that was filed by eMagin Corporation with the Securities and Exchange Commission. The selling stockholders may not sell these securities until the registration statement becomes effective. This Prospectus is not an offer to sell these securities and is not soliciting an offer to buy these securities in any state where the sale is not permitted.

TABLE OF CONTENTS

	Page
Prospectus Summary	5
Risk Factors	8
Forward Looking Statements	15
Use of Proceeds	15
Market For Common Equity and Related Stockholder Matters	15
Selected Financial Data	16
Management's Discussion and Analysis of Financial Condition and Results of	17
Operations	
Business	28
Description of Property	35
Legal Proceedings	35
Management	36
Executive Compensation	39
Security Ownership of Certain Beneficial Owners and Management	45
Indemnification for Securities Act Liabilities	47
Plan of Distribution	47
Description of Securities	48
Selling Stockholders	49
Transactions With Related Persons, Promoters and Certain Control Persons	50
Legal Matters	50
Experts	50
Available Information	50
Index to Financial Statements	51

PROSPECTUS SUMMARY

The following summary highlights selected information contained in this prospectus. This summary does not contain all the information you should consider before investing in the securities. Before making an investment decision, you should read the entire prospectus carefully, including the "risk factors" section, the financial statements and the notes to the financial statements.

eMagin designs, develops, manufactures, and markets OLED (organic light emitting diode) microdisplays, display and optical subsystems for virtual imaging products (which utilize OLED microdisplays), and 3D virtual imaging headsets for computer gaming, simulation applications and virtual training. We also perform research in the OLED field. Our virtual imaging products integrate OLED technology on silicon chips to produce high-resolution microdisplays smaller than one-inch diagonally which, when viewed through a magnifier, create virtual images that appear comparable in size to that of a computer monitor or a large-screen television. Our products enable our original equipment manufacturer ("OEM") customers to develop and market improved or new electronic products. We believe that virtual imaging is becoming an important way for increasingly mobile people to have quick access to high-resolution data, work, and experience new more immersive forms of communications and entertainment.

Our first commercial product, the SVGA+ OLED microdisplay was introduced in 2001, and followed by the SVGA-3D OLED microdisplay in early 2002. Over 200,000 of these products have been shipped to military, industrial and commercial customers and are being applied or considered for near-eye and headset applications in products such as entertainment and gaming headsets, electronic viewfinders for high-end still and motion picture cameras, surgical training simulators, multi-spectral military night vision goggles, thermal weapons sights and range finders, and augmented vision, situational head worn displays. eMagin's products are marketed globally.

In 2006 we introduced our OLED-XL technology, which provided longer luminance half-life, and enhanced the efficiency of eMagin's microdisplay products. Continuing research to further improve OLED materials has allowed eMagin to introduce High-Brightness OLED technology in 2011 that is two to three times more efficient than our OLED-XL products.

In 2008 eMagin introduced the SXGA (1280 x 1024 pixels) OLED-XL microdisplay and in 2011 we released a VGA OLED-XL microdisplay – both with digital interfaces and eMagin's Deep BlackTM technology that provides ultra-high contrast (500 times higher than comparable LCD displays). In 2011 we also demonstrated working samples of a WUXGA (greater than HD resolution at 1920 x 1200 color pixels) OLED microdisplay with less than a one inch diagonal viewing area.

eMagin continues to market the Z800 3D Visor first introduced in January 2005. This product received the Consumer Electronics Association's coveted Consumer Electronics Show (CES) 2006 Best of Innovation Awards for the entire display category as well as a Design and Innovations Award for the electronic gaming category.

We believe that our OLED microdisplays offer a number of significant advantages over comparable liquid crystal microdisplays (LCDs), including greatly increased power efficiency, less weight and dramatically higher contrast. Using our active matrix OLED technology, many computer and electronic system functions can be built directly into the OLED microdisplay silicon backplane, resulting in compact, high-resolution, power-efficient systems. We have developed our own intellectual property and accumulated over 10 years of manufacturing know-how to create high performance OLED microdisplays.

As the first to exploit OLED technology for microdisplays, and with the support of our partners and the development of our intellectual property, we believe that we enjoy a significant advantage in the commercialization of

microdisplays for virtual imaging. We have advanced our technology to HD display quality, 1080p, and beyond while maintaining the advantages of low power, less weight and higher performance.

eMagin Corporation was created through the merger of Fashion Dynamics Corporation ("FDC"), which was organized on January 23, 1996 under the laws of the State of Nevada and FED Corporation ("FED"), a developer and manufacturer of optical systems and microdisplays for use in the electronics industry. FDC had no active business operations other than to acquire an interest in a business. On March 16, 2000, FDC acquired FED. The merged company changed its name to eMagin Corporation. Following the merger, the business conducted by eMagin is the business conducted by FED prior to the merger.

Our website is located at www.emagin.com and our e-commerce site is www.3dvisor.com. The contents of our website are not part of this Prospectus.

The Offering

Common stock offered	by selling stockholders	Up to 11,646,723 shares, consisting of the following:
		· up to 1,000,000 shares of common stock issuable upon the exercise of common stock purchase warrants at an exercise price of \$1.03 per share and 663,294 shares of common stock issued upon the cashless exercise of common stock purchase warrants*;
		· 1,000,000 shares of common stock issued upon the exercise of common stock purchase warrants at an exercise price of \$0.48 per share**;
		· 1,438,096 shares of common stock, consisting of (i) 1,428,572 shares issued upon conversion of the note ("Stillwater Note") issued to Stillwater Holdings LLC (f/k/a Stillwater LLC) ("Stillwater") representing \$500,000 of the principal amount of the Stillwater Note and (ii) 9,524 shares issued for accrued and unpaid interest under the Stillwater Note***; and
		· up to 7,545,333 shares of common stock issuable upon the conversion of Series B Convertible Preferred Stock.
Common Stock to be o offering	utstanding after the	31,876,667 shares assuming the full exercise of the warrants and full conversion of Series B Convertible Preferred Stock underlying shares which are included in this prospectus.****
Use of Proceeds		We will not receive any proceeds from the sale of the common stock; however, we will receive proceeds from the exercise of our warrants.
NYSE AMEX Symbol		EMAN
* **	On April 14, 2010, Stillwater elected to exercise price of \$0.48 per share and received	3,294 shares of common stock. se its common stock purchase warrants at an

On July, 23 2007, Stillwater elected to convert \$252,166.50 of the Stillwater Note, then outstanding, representing \$250,000 of the principal amount of the Note due on July 23, 2007 and \$2,166.50 of accrued and unpaid interest into shares of common stock. Stillwater received 720,476 shares of the common stock at the conversion price of \$0.35. On December 22, 2008, Stillwater elected to convert the \$251,166.67 of the remaining Stillwater Note representing \$250,000 of the principal amount of the Note due on December 22, 2008 and \$1,166.67 of accrued and unpaid interest into shares of common stock. Stillwater received 717,620 shares of the common stock at the conversion price of \$0.35.

6

The information above regarding the common stock to be outstanding after the offering is based on 23,331,334 shares of the Company's common stock outstanding as of November 18, 2011.

SUMMARY CONSOLIDATED FINANCIAL DATA

The following selected consolidated financial data should be read in conjunction with our consolidated financial statements and related notes and "Management's Discussion and Analysis of Financial Condition and Results of Operations".

The consolidated statements of operations data for the years ended December 31, 2010 (Restated), 2009 (Restated) and 2008 and the balance sheet data at December 31, 2010 (Restated) and 2009 (Restated) are derived from our audited financial statements which are included elsewhere in this prospectus. The consolidated statements of operations data for the years ended December 31, 2007 and 2006 and the balance sheet data at December 31, 2008, 2007 and 2006 are derived from our audited financial statements which are not included in this prospectus. The historical results are not necessarily indicative of results to be expected for future periods. The following information is presented in thousands, except per share data.

Consolidated Statements of Operations Data:

				I								For the Nine Months				
		2010	Fo	or the Year 2009	: En	ded Dece	mbe	er 31,		I	Ended Sep	ten	iber 30,			
	(R	testated)	(R	estated)		2008		2007		2006	2011		2010			
		•		(I	n th	ousands,	exce	ept per shai	re d	ata)						
Revenue	\$	30,458	\$	23,822	\$	18,739	\$	17,554	\$	8,169	21,153	\$	322,495			
Cost of goods sold		12,018		10,175		10,673		12,628		11,359	10,922		8,970			
Gross profit (loss)		18,440		13,647		8,066		4,926		(3,190)	10,231		13,525			
Operating expenses:																
Research and																
development		2,370		1,996		2,081		2,949		4,406	2,071		1,888			
Selling, general and																
administrative		10,055		6,900		6,254		6,591		8,860	6,361		6,873			
Total operating																
expenses		12,425		8,896		8,335		9,540		13,266	8,432		8,761			
Income (loss) from																
operations		6,015		4,751		(269)		(4,614)		(16,456)	1,799		4,764			
Other (expense)																
income, net		(16,086)		(6,932)		(1,590)		(13,874)		1,190	2,495		(9,689)			
Net (loss) income																
prior to income tax		(10.071)		(2.101)		(1.050)		(10, 100)		(15.066)	4.20.4		(4.005)			
provision		(10,071)		(2,181)		(1,859)		(18,488)		(15,266)	4,294		(4,925)			
Income tax (benefit)		(0.021)		00							5.40		7.5			
expense	ф	(8,931)	ф	90	ф	(1.050)	- ф	(10, 400)	- Ф	(15.066)	542	ф	75			
Net (loss) income	\$	(1,140)	\$	(2,271)	\$	(1,859)	\$	(18,488)	\$	(15,266) \$	3,752	\$	(5,000)			
(1) :																
(Loss) income per	ф	(0.06)	¢	(0.14)	Φ	(0.12)	Φ	(1.50)	Φ	(1.50)	0.12	Φ	(0.27)			
share, basic	\$	(0.06)	\$	(0.14)	\$	(0.13)	\$	(1.59)	\$	(1.52) \$	0.13	\$	(0.27)			
(Loss) income per	\$	(0.06)	\$	(0.14)	Ф	(0.12)	\$	(1.50)	Φ	(1.52)	0.02	Φ	(0.27)			
share, diluted	Ф	(0.06)	Ф	(0.14)	\$	(0.13)	Ф	(1.59)	\$	(1.52) \$	0.02	Ф	(0.27)			

Edgar Filing: EMAGIN CORP - Form POS AM

Shares used in cale	culation of (loss) incon	ne per					
share:							
Basic	19,240	16,344	14,175	11,633	10,058	22,154	18,781
Diluted	19,240	16,344	14,175	11,633	10,058	25,642	18,781

Consolidated Balance Sheet Data:

(In thousands)

					Dec	cember 31,				Septe	mbe	er 30,
		2010		2009								
	(R	estated)	(R	Restated)		2008		2007	2006	2011		2010
Cash and cash										\$	\$	
equivalents	\$	7,796	\$	5,295	\$	2,404	\$	713	\$ 1,415	6,498		6,714
Working capital										\$	\$	
(deficit)	\$	5,881	\$	8,581	\$	3,300	\$	(4,708)	\$ (305)	16,912		8,302
Total assets	\$	32,702	\$	13,980	\$	10,104	\$	6,648	\$ 7,005	\$ 36,318	\$	21,180
Long-term										\$	\$	
obligations	\$	5,158	\$	6,844	\$	_	_ \$	60	\$ 2,229	_	_	2,757
Total shareholders	,									\$	\$	
equity												
(capital deficit)	\$	14,697	\$	2,893	\$	3,661	\$	(4,170)	\$ (1,164)	31,618		9,910

ITEM 1A. RISK FACTORS

You should carefully consider the following risk factors and the other information included herein as well as the information included in other reports and filings made with the SEC before investing in our common stock. The following factors, as well as other factors affecting our operating results and financial condition, could cause our actual future results and financial condition to differ materially from those projected. The trading price of our common stock could decline due to any of these risks, and you may lose part or all of your investment.

RISKS RELATED TO OUR FINANCIAL RESULTS

We have had losses in the past and may incur losses in the future.

Our accumulated deficit is approximately \$188 million as of September 30, 2011. We achieved profitability for two consecutive quarters in 2011. We can give no assurances that we will continue to be profitable in the future. We cannot assure investors that we will sustain profitability or that we will not incur operating losses in the future.

We may not be able to execute our business plan due to a lack of cash from operations.

Prior to April 2008, we had not produced positive cash flows from operations. However, we have generated positive cash flows the past 14 quarters. We anticipate that our cash from operations will be sufficient to meet our requirements over the next twelve months. In the event that cash flow from operations is less than anticipated and we are unable to secure additional funding to cover our expenses, in order to preserve cash, we may have to reduce expenditures and effect reductions in our corporate infrastructure, either of which could have a material adverse effect on our ability to continue our current level of operations. No assurance can be given that if financing is necessary, that it will be available, or if available, will be on acceptable terms.

Our operating results have significant fluctuations.

In addition to the variability resulting from the short-term nature of commitments from our customers, other factors contribute to significant periodic quarterly fluctuations in results of operations. These factors include, but are not limited to, the following:

- the receipt and timing of orders and the timing of delivery of orders;
- the inability to adjust expense levels or delays in adjusting expense levels, in either case in response to lower than expected revenues or gross margins;
- the volume of orders relative to our manufacturing capacity;
- · product introductions and market acceptance of new products or new generations of products;
- · changes in cost and availability of labor and components;
- product mix;
- · variation in operating expenses;
- · regulatory requirements, foreign currency fluctuations and changes in duties and tariffs;
- · pricing and availability of competitive products and services; and
- · changes, whether or not anticipated, in economic conditions.

Accordingly, the results of any past periods should not be relied upon as an indication of our future performance.

The manufacture of active matrix OLED microdisplays continues to evolve as better methods are discovered and employed and therefore we may encounter manufacturing issues or delays.

Ours is an evolving technology and we are pioneers in this active matrix OLED microdisplay manufacturing technique. As such, we cannot assure you that we will be able to produce our products in sufficient quantity and quality to maintain existing customers and attract new customers. In addition, we cannot assure you that we will not experience manufacturing problems which could result in delays in delivery of orders or product introductions.

We are dependent on a single manufacturing line.

We currently manufacture our products on a single manufacturing line. If we experience any significant disruption in the operation of our manufacturing facility or a serious failure of a critical piece of equipment, we may be unable to supply microdisplays to our customers. For this reason, some OEMs may also be reluctant to commit a broad line of products to our microdisplays without a second production facility in place. However, we try to maintain product inventory to fill the requirements under such circumstances. Interruptions in our manufacturing could be caused by manufacturing equipment problems, the introduction of new equipment into the manufacturing process or delays in the delivery of new manufacturing equipment. Lead-time for delivery, installation and testing of manufacturing equipment can be extensive. No assurance can be given that we will not lose potential sales or be unable to meet production orders due to production interruptions in our manufacturing line. In order to meet the requirements of certain OEMs for multiple manufacturing sites, we will have to expend capital to secure additional sites and may not be able to manage multiple sites successfully.

We rely on key sole source and limited source suppliers.

We depend on a number of sole source or limited source suppliers for certain raw materials, components, and services. These include circuit boards, graphic integrated circuits, passive components, materials and chemicals, and equipment support. We maintain several single-source supplier relationships, either because alternative sources are not available or because the relationship is advantageous due to performance, quality, support, delivery, capacity, or price considerations. Even where alternative sources of supply are available, qualification of the alternative suppliers and establishment of reliable supplies could result in delays and a possible loss of sales, which could be detrimental to operating results. We do not manufacture the silicon integrated circuits on which we incorporate our OLED technology. Instead, we provide the design layouts to a sole semiconductor contract manufacturer who manufactures the integrated circuits on silicon wafers. Our inability to obtain sufficient quantities of components and other materials or services on a timely basis could result in manufacturing delays, increased costs and ultimately in reduced or delayed sales or lost orders which could materially and adversely affect our operating results. Generally, we do not have long term contracts or written agreements with our source suppliers, but instead operate on the basis of short term purchase orders.

Our results of operations, financial condition, and business would be harmed if we were unable to balance customer demand and capacity.

As customer demand for our products, particularly new products, changes we must be able to ramp up or adjust our production capacity to meet demand. We are continually taking steps to address our manufacturing capacity needs for our products. If we are not able to increase our capacity or if we increase our capacity too quickly, our business and results of operations could be adversely impacted. If we experience delays or unforeseen costs associated with adjusting our capacity levels, we may not be able to achieve our financial targets. For some of our products, vendor lead times exceed our customers' required delivery time causing us to order to forecast rather than order based on actual demand. Ordering raw material and building finished goods based on forecasts exposes us to numerous risks including potential inability to service customer demand in an acceptable timeframe, holding excess inventory or having unabsorbed manufacturing overhead.

Variations in our production yields impact our ability to reduce costs and could cause our margins to decline and our operating results to suffer.

All of our products are manufactured using technologies that are highly complex. The number of usable items, or yield, from our production processes may fluctuate as a result of many factors, including but not limited to the following:

- · variability in our process repeatability and control;
- · contamination of the manufacturing environment or equipment;
- · equipment failure, power outages, or variations in the manufacturing process;
- · lack of consistency and adequate quality and quantity of piece parts and other raw materials;
- defects in packaging either within or without our control; and
- any transitions or changes in our production process, planned or unplanned.

We could experience manufacturing interruptions, delays, or inefficiencies if we are unable to timely and reliably procure components from single-sourced suppliers.

We maintain several single-source supplier relationships, either because alternative sources are not available or because the relationship is advantageous due to performance, quality, support, delivery, capacity, or price considerations. If the supply of a critical single-source material or component is delayed or curtailed, we may not be able to ship the related product in desired quantities and in a timely manner. Even where alternative sources of supply are available, qualification of the alternative suppliers and establishment of reliable supplies could result in delays and a possible loss of sales, which could harm operating results.

RISKS RELATED TO OUR INTELLECTUAL PROPERTY

We may not be successful in protecting our intellectual property and proprietary rights.

We rely on a combination of patents, trade secret protection, licensing agreements and other arrangements to establish and protect our proprietary technologies. If we fail to successfully enforce our intellectual property rights, our competitive position could suffer, which could harm our operating results. Patents may not be issued for our current patent applications, third parties may challenge, invalidate or circumvent any patent issued to us, unauthorized parties could obtain and use information that we regard as proprietary despite our efforts to protect our proprietary rights, rights granted under patents issued to us may not afford us any competitive advantage, others may independently develop similar technology or design around our patents, and protection of our intellectual property rights may be limited in certain foreign countries. On April 30, 2007, the U.S. Supreme Court, in KSR International Co. vs. Teleflex, Inc., mandated a more expansive and flexible approach towards a determination as to whether a patent is obvious and invalid, which may make it more difficult for patent holders to secure or maintain existing patents. Any future infringement or other claims or prosecutions related to our intellectual property could have a material adverse effect on our business. Any such claims, with or without merit, could be time consuming to defend, result in costly litigation, divert management's attention and resources, or require us to enter into royalty or licensing agreements. Such royalty or licensing agreements, if required, may not be available on terms acceptable to us, if at all, Protection of intellectual property has historically been a large yearly expense for eMagin. We have not been in a financial position to properly protect all of our intellectual property, and may not be in a position to properly protect our position or stay ahead of competition in new research and the protecting of the resulting intellectual property.

In addition to patent protection, we also rely on trade secrets and other non-patented proprietary information relating to our product development and manufacturing activities. We try to protect this information through appropriate efforts to maintain its secrecy, including requiring employees and third parties to sign confidentiality agreements. We cannot be sure that these efforts will be successful or that the confidentiality agreements will not be breached. We also cannot be sure that we would have adequate remedies for any breach of such agreements or other misappropriation of our trade secrets or that our trade secrets and proprietary know-how will not otherwise become known or be independently discovered by others.

RISKS RELATED TO THE MICRODISPLAY INDUSTRY

The commercial success of the microdisplay industry depends on the widespread market acceptance of microdisplay systems products.

The commercial market for microdisplays is still emerging. Our long-term success may depend on consumer acceptance of microdisplays as well as the success of the commercialization of the microdisplay market. As an OEM supplier, our customer's products must also be well accepted. At present, it is difficult to assess or predict with any assurance the potential size, timing and viability of market opportunities for our technology in this market.

The microdisplay systems business is intensely competitive.

We do business in intensely competitive markets that are characterized by rapid technological change, changes in market requirements and competition from both other suppliers and our potential OEM customers. Such markets are typically characterized by price erosion. This intense competition could result in pricing pressures, lower sales, reduced margins, and lower market share. Our ability to compete successfully will depend on a number of factors, both within and outside our control. We expect these factors to include the following:

- our success in designing, manufacturing and delivering expected new products, including those implementing new technologies on a timely basis;
- · our ability to address the needs of our customers and the quality of our customer services;
- the quality, performance, reliability, features, ease of use and pricing of our products;
- · successful expansion of our manufacturing capabilities;
- · our efficiency of production, and ability to manufacture and ship products on time;
- the rate at which original equipment manufacturing customers incorporate our product solutions into their own products;
- · the market acceptance of our customers' products; and
- product or technology introductions by our competitors.

Our competitive position could be damaged if one or more potential OEM customers decide to manufacture their own microdisplays, using OLED or alternate technologies. In addition, our customers may be reluctant to rely on a relatively small company such as eMagin for a critical component. We cannot assure you that we will be able to compete successfully against current and future competition, and the failure to do so would have a materially adverse effect upon our business, operating results and financial condition.

The display industry may be cyclical.

Our business strategy is dependent on OEM manufacturers building and selling products that incorporate our OLED displays as components into those products. Industry-wide fluctuations could cause significant harm to our business. The OLED microdisplay sector may experience overcapacity, if and when all of the facilities presently in the planning stage come on line, leading to a difficult market in which to sell our products.

Our competitors have many advantages over us.

As the microdisplay market develops, we expect to experience intense competition from numerous domestic and foreign companies including well-established corporations possessing worldwide manufacturing and production facilities, greater name recognition, larger retail bases and significantly greater financial, technical, and marketing resources than us, as well as from emerging companies attempting to obtain a share of the various markets in which our microdisplay products have the potential to compete. We cannot assure you that we will be able to compete successfully against current and future competition, and the failure to do so would have a materially adverse effect upon our business, operating results and financial condition.

Our products are subject to lengthy OEM development periods.

We sell most of our microdisplays to OEMs who will incorporate them into products they sell. OEMs determine during their product development phase whether they will incorporate our products. The time elapsed between initial sampling of our products by OEMs, the custom design of our products to meet specific OEM product requirements, and the ultimate incorporation of our products into OEM consumer products is significant, often with a duration of between one and three years. If our products fail to meet our OEM customers' cost, performance or technical requirements or if unexpected technical challenges arise in the integration of our products into OEM consumer products, our operating results could be significantly and adversely affected. Long delays in achieving customer qualification and incorporation of our products could adversely affect our business.

In order to increase or maintain our profit margins we may have to continuously develop new products, product enhancements and new technologies.

In some markets, prices of established products tend to decline over time. In order to increase or maintain our profit margins over the long term, we believe that we will need to continuously develop new products, product enhancements and new technologies that will either slow price declines of our products or reduce the cost of producing and delivering our products. While we anticipate many opportunities to reduce production costs over time, there can be no assurance that these cost reduction plans will be successful, that we will have the resources to fund the expenditures necessary to implement certain cost-saving measures, or that our costs can be reduced as quickly as any reduction in unit prices. We may also attempt to offset the anticipated decrease in our average selling price by introducing new products with higher selling prices that may or may not offset price declines in more mature products. If we fail to do so, our results of operations could be materially and adversely affected.

RISKS RELATED TO OUR BUSINESS

Our success depends on attracting and retaining highly skilled and qualified technical and consulting personnel.

We must hire highly skilled technical personnel as employees and as independent contractors in order to develop our products. The competition for skilled technical employees is intense and we may not be able to retain or recruit such personnel. We must compete with companies that possess greater financial and other resources than we do, and that may be more attractive to potential employees and contractors. To be competitive, we may have to increase the compensation, bonuses, stock options and other fringe benefits offered to employees in order to attract and retain such personnel. The costs of attracting and retaining new personnel may have a materially adverse effect on our business and our operating results.

Our success depends in a large part on the continuing service of key personnel.

Changes in management could have an adverse effect on our business. We are dependent upon the active participation of several key management personnel and will also need to recruit additional management in order to expand according to our business plan. The failure to attract and retain additional management or personnel could have a material adverse effect on our operating results and financial performance.

Our operating results are substantially dependent on the development and acceptance of new products and technology innovations.

Our future success may depend on our ability to develop new and lower cost solutions for existing and new markets and for customers to accept those solutions. We must introduce new products in a timely and cost-efficient manner, and we must secure production orders for those products from our customers. The development of new products is a

highly complex process, and we historically have experienced delays in completing the development and introduction of new products. Some or all of those technologies or products may not successfully make the transition from the research and development lab. Even when we successfully complete a research and development effort with respect to a particular product or technology, it may fail to gain

market acceptance. The successful development and introduction of these products depends on a number of factors, including the following:

- · achievement of technology breakthroughs required to make commercially viable devices;
- the accuracy of our predictions of market requirements;
- · acceptance of our new product designs;
- · acceptance of new technology in certain markets;
- the availability of qualified research and development and product development personnel;
- · our timely completion of product designs and development;
- · our ability and available resources to expand sales;
- our ability to develop repeatable processes to manufacture new products in sufficient quantities and at low enough costs for commercial sales;
- · our customers' ability to develop competitive products incorporating our products; and
- · acceptance of our customers' products by the market.

If any of these or other factors become problematic, we may not be able to develop and introduce these new products in a timely or cost-effective manner.

If government agencies discontinue or curtail their funding for our research and development programs our business may suffer.

Changes in federal budget priorities could adversely affect our contract revenue. Historically, government agencies have funded a significant part of our research and development activities. Our funding has the risk of being redirected to other programs when the government changes budget priorities, such as in time of war or for other reasons. Government contracts are also subject to the risk that the government agency may not appropriate and allocate all funding contemplated by the contract. In addition our government contracts generally permit the contracting authority to terminate the contract for the convenience of the government. The full value of the contracts would not be realized if they were prematurely terminated. We may be unable to incur sufficient allowable costs to generate the full estimated contract values. Furthermore, the research and development and product procurement contracts of the customers we supply may be similarly impacted. If the government funding is discontinued or reduced, our ability to develop or enhance products could be limited and our business results or operations and financial conditions could be adversely affected.

Our business depends on new products and technologies.

The market for our products is characterized by rapid changes in product, design and manufacturing process technologies. Our success depends to a large extent on our ability to develop and manufacture new products and technologies to match the varying requirements of different customers in order to establish a competitive position and become profitable. Furthermore, we must adopt our products and processes to technological changes and emerging industry standards and practices on a cost-effective and timely basis. Our failure to accomplish any of the above could harm our business and operating results.

We generally do not have long-term contracts with our customers.

Our business has primarily operated on the basis of short-term purchase orders. We receive some longer term purchase agreements, and procurement contracts, but we cannot guarantee that we will continue to do so. Our current purchase agreements can be cancelled or revised without penalty, depending on the circumstances. We plan production primarily on the basis of internally generated forecasts of demand based on communications with customers, and available industry data which makes it difficult to accurately forecast revenues. If we fail to accurately forecast operating results, our business may suffer and the value of your investment in eMagin may decline.

Our business strategy may fail if we cannot continue to form strategic relationships with companies that manufacture and use products that could incorporate our active matrix OLED technology.

Our prospects could be significantly affected by our ability to develop strategic alliances with OEMs for incorporation of our active matrix OLED microdisplay technology into their products. While we intend to continue to establish strategic relationships with manufacturers of electronic consumer products, personal computers, chipmakers, lens makers, equipment makers, material suppliers and/or systems assemblers, there is no assurance that we will be able to continue to establish and maintain strategic relationships on commercially acceptable terms, or that the alliances we do enter in to will realize their objectives. Failure to do so could have a material adverse effect on our business.

Our business depends to some extent on international transactions.

We purchase needed materials from companies located abroad and may be adversely affected by political and currency risk, as well as the additional costs of doing business with foreign entities. Some customers in other countries have longer receivable periods or warranty periods. In addition, many of the foreign OEMs that are the most likely long-term purchasers of our microdisplays expose us to additional political and currency risk. We may find it necessary to locate manufacturing facilities abroad to be closer to our customers which could expose us to various risks, including management of a multi-national organization, the complexities of complying with foreign laws and customs, political instability and the complexities of taxation in multiple jurisdictions.

Our business may expose us to product liability claims.

Our business may expose us to potential product liability claims. Although no such claims have been brought against us to date, and to our knowledge no such claim is threatened or likely, we may face liability to product users for damages resulting from the faulty design or manufacture of our products. While we plan to maintain product liability insurance coverage, there can be no assurance that product liability claims will not exceed coverage limits, fall outside the scope of such coverage, or that such insurance will continue to be available at commercially reasonable rates, if at all.

Our business is subject to environmental regulations and possible liability arising from potential employee claims of exposure to harmful substances used in the development and manufacture of our products.

We are subject to various governmental regulations related to toxic, volatile, experimental and other hazardous chemicals used in our design and manufacturing process. Our failure to comply with these regulations could result in the imposition of fines or in the suspension or cessation of our operations. Compliance with these regulations could require us to acquire costly equipment or to incur other significant expenses. We develop, evaluate and utilize new chemical compounds in the manufacture of our products. While we attempt to ensure that our employees are protected from exposure to hazardous materials, we cannot assure you that potentially harmful exposure will not occur or that we will not be liable to employees as a result.

Some of our business is subject to U.S. government procurement laws and regulations.

We must comply with certain laws and regulations relating to the formation, administration and performance of federal government contracts. These laws and regulations affect how we conduct business with our federal government contracts, including the business that we do as a subcontractor. In complying with these laws and regulations, we may incur additional costs, and non-compliance may lead to the assessment of fines and penalties, including contractual damages, or the loss of business.

Our business is subject to export laws and regulations.

We engage in international work falling under the jurisdiction of U.S. export control laws. Failure to comply with these control regimes can lead to severe penalties, both civil and criminal, and can include debarment from contracting with the U.S. government.

Current adverse economic conditions may adversely impact our business, operating results and financial condition.

The current economic conditions and market instability may affect our customers and suppliers. Any adverse financial or economic impact to our customers may impact their ability to pay timely, or result in their inability to pay. It may also impact their ability to fund future purchases, or increase the sales cycles which could lead to a reduction in revenue and accounts receivable. Our suppliers may increase their prices or may be unable to supply needed raw materials on a timely basis which could result in our inability to meet customers' demand or affect our gross margins. Our suppliers may, also, impose more stringent payment terms on us. The timing and nature of any recovery in the credit and financial markets remains uncertain, and there can be no assurance that market conditions will improve in the near future or that our results will not be materially and adversely affected.

RISKS RELATED TO OUR STOCK

The substantial number of shares that are or will be eligible for sale could cause our common stock price to decline even if eMagin is successful.

Sales of significant amounts of common stock in the public market, or the perception that such sales may occur, could materially affect the market price of our common stock. These sales might also make it more difficult for us to sell equity or equity-related securities in the future at a time and price that we deem appropriate. As of November 18, 2011, we have outstanding common shares of 23,331,334 plus (i) options to purchase 4,401,491 shares, (ii) warrants to purchase 1,000,000 shares and (iii) 7,545,333 shares of common stock issued upon conversion of preferred stock.

Changes in internal controls or accounting guidance could cause volatility in our stock price.

Guidance regarding implementation and interpretation of the provisions of Section 404 of the Sarbanes-Oxley Act continues to be issued by the standards-setting community. In July 2010, smaller reporting companies were granted permanent exemption from having to obtain an auditors' report on management's assertion of the effectiveness of its internal control over financial reporting. However, based on the current rules, we expect to become an accelerated filer in 2012 when we file our 2011 10-K, which will cause us to be subject to an audit of our internal controls. As a result of the ongoing interpretation of new guidance and the audit testing which we anticipate will be required to be completed in the future, our internal controls over financial reporting may include an unidentified material weakness which would result in receiving an adverse opinion on our internal controls over financial reporting from our independent registered public accounting firm. We have restated our previously issued consolidated financial statements, related disclosures, and management's discussion and analysis of financial condition and results of operations for the quarters ended March 31, June 30, and September 30, 2009; March 31, June 30 and September 2010; and March 31, 2011 and for the years ended December 31, 2009 and 2010. As a result of a deficiency in our internal control over financial reporting relating to the accounting for common stock warrants as liabilities, as of September 30, 2011 our management determined that our disclosure controls and procedures were not effective. Our ability to maintain effective internal controls may affect our ability to accurately report our financial results. We can provide no assurance that we will at all times in the future be able to report that our internal control is effective.

The market price of our common stock may be volatile.

The market price of our common stock has been subject to wide fluctuations. Since January 1, 2011, the closing price of our stock has ranged from \$2.37 to \$9.04. The market price of our common stock in the future is likely to continue to be subject to wide fluctuations in response to various factors, including, but not limited to, the following:

- · variations in our operating results and financial conditions;
- actual or anticipated announcements of technical innovations, new product developments, or design wins by us or our competitors;
- · general conditions in the semiconductor and flat panel display industries; and
- · worldwide economic and financial conditions.

In addition, the public stock markets have experienced extreme price and volume fluctuations that have particularly affected the market price for many technology companies and that have often been unrelated to the operating performance of these companies. The broad market fluctuations and other factors may continue to adversely affect the market price of our common stock.

FORWARD LOOKING STATEMENTS

We and our representatives may from time to time make written or oral statements that are "forward-looking," including statements contained in this prospectus and other filings with the Securities and Exchange Commission, reports to our stockholders and news releases. All statements that express expectations, estimates, forecasts or projections are forward-looking statements. In addition, other written or oral statements which constitute forward-looking statements may be made by us or on our behalf. Words such as "expects," "anticipates," "intends," "plans," "believes," "seeks," "estimate "projects," "forecasts," "may," "should," variations of such words and similar expressions are intended to identify forward-looking statements. These statements are not guarantees of future performance and involve risks, uncertainties, and assumptions which are difficult to predict. Therefore, actual outcomes and results may differ materially from what is expressed or forecasted in or suggested by such forward-looking statements. Among the important factors on which such statements are based are assumptions concerning our ability to obtain additional funding, our ability to compete against our competitors, our ability to integrate our acquisitions and our ability to attract and retain key employees.

USE OF PROCEEDS

This prospectus relates to shares of our common stock that may be offered and sold from time to time by the selling stockholders. We will not receive any proceeds from the sale of shares of common stock in this offering. However, we will receive the sale price of any common stock we sell to the selling stockholders upon exercise of the warrants owned by the selling stockholders. We expect to use the proceeds received from the exercise of the warrants, if any, for general working capital purposes. We have not declared or paid any dividends and do not currently expect to do so in the near future.

MARKET FOR COMMON EQUITY AND RELATED STOCKHOLDER MATTERS

Since May 18, 2010, our common stock has been listed on the NYSEC AMEX Board under the symbol "EMAN." Prior to May 18, 2010, our common stock was quoted on the OTC Bulletin Board under the symbol "EMAN.OB". The following table sets forth the high and low sales prices for our common stock for the periods indicated.

	F	High	Low
Fiscal 2009			
First Quarter	\$	0.85	\$ 0.32
Second Quarter	\$	1.40	\$ 0.60
Third Quarter	\$	2.08	\$ 0.97
Fourth Quarter	\$	2.00	\$ 1.38
Fiscal 2010			
First Quarter	\$	3.90	\$ 1.47
Second Quarter	\$	5.49	\$ 2.88
Third Quarter	\$	3.65	\$ 1.91
Fourth Quarter	\$	6.00	\$ 3.00
Fiscal 2011			
First Quarter	\$	9.31	\$ 5.91
Second Quarter	\$	8.94	\$ 4.41
Third Quarter	\$	6.49	\$ 2.60
Fourth Quarter (through November 18, 2011)	\$	4.94	\$ 2.28

As of November 18, 2011 there were 466 holders of record of our common stock. Because brokers and other institutions hold many of the shares on behalf of shareholders, we are unable to determine the actual number of shareholders represented by these record holders.

Dividends

We have never declared or paid cash dividends on our common stock. We currently anticipate that we will retain all future earnings to fund the operation of our business and do not anticipate paying dividends on our common stock in the foreseeable future.

SELECTED FINANCIAL DATA

The following selected consolidated financial data should be read in conjunction with our consolidated financial statements and related notes and "Management's Discussion and Analysis of Financial Condition and Results of Operations". The consolidated statements of operations data for the years ended December 31, 2010 (Restated), 2009 (Restated) and 2008 and the balance sheet data at December 31, 2010 (Restated) and 2009 (Restated) are derived from our audited financial statements which are included elsewhere in this prospectus. The consolidated statements of operations data for the years ended December 31, 2007 and 2006 and the balance sheet data at December 31, 2008, 2007 and 2006 are derived from our audited financial statements which are not included in this prospectus. The historical results are not necessarily indicative of results to be expected for future periods. The following information is presented in thousands, except per share data.

Consolidated Statements of Operations Data:

											Fo	or the Ni	ne l	Months
		2010	Fo	or the Yea 2009	r En	ided Decei	mbe	er 31,			Er	nded Sep	ten	iber 30,
	(R	Restated)	(R	(estated)		2008		2007		2006		2011		2010
					(In t	housands,	exc	cept per sha	are	data)				
Revenue	\$	30,458	\$	23,822	\$	18,739	\$	17,554	\$	8,169	\$	21,153	\$	22,495
Cost of goods sold		12,018		10,175		10,673		12,628		11,359		10,922		8,970
Gross profit (loss)		18,440		13,647		8,066		4,926		(3,190)		10,231		13,525
Operating expenses:														
Research and														
development		2,370		1,996		2,081		2,949		4,406		2,071		1,888
Selling, general and administrative		10,055		6,900		6,254		6,591		8,860		6,361		6,873
Total operating														
expenses		12,425		8,896		8,335		9,540		13,266		8,432		8,761
Income (loss) from														
operations		6,015		4,751		(269)		(4,614)		(16,456)		1,799		4,764
Other (expense)														
income, net		(16,086)		(6,932)		(1,590)		(13,874)		1,190		2,495		(9,689)
Net (loss) income														
prior to income tax						/4 0 = 0 \		(10.100)						
provision		(10,071)		(2,181)		(1,859)		(18,488)		(15,266)		4,294		(4,925)
Income tax		(0.021)		00								5.40		75
(benefit) expense	ф	(8,931)	Ф	90	ф	(1.050)	- ф	(10, 400)	- ф	(15.066)	- Ф	542	ф	75
Net (loss) income	\$	(1,140)	\$	(2,271)	\$	(1,859)	\$	(18,488)	\$	(15,266)	\$	3,752	\$	(5,000)
(1 222) :=================================														
(Loss) income per	\$	(0.06)	\$	(0.14)	Ф	(0.12)	Φ	(1.50)	\$	(1.52)	Ф	0.12	Ф	(0.27)
share, basic (Loss) income per	Ф	(0.06)	Ф	(0.14)	\$	(0.13)	\$	(1.59)	Ф	(1.52)	\$	0.13	\$	(0.27)
share, diluted	\$	(0.06)	\$	(0.14)	\$	(0.13)	\$	(1.59)	\$	(1.52)	\$	0.02	\$	(0.27)

Edgar Filing: EMAGIN CORP - Form POS AM

Shares used in calc	ulation of (loss) inco	me per					
share:							
Basic	19,240	16,344	14,175	11,633	10,058	22,154	18,781
Diluted	19,240	16,344	14,175	11,633	10,058	25,642	18,781

Consolidated Balance Sheet Data: (In thousands)

					Dece	mber 31,				Sept	emb	er 30,
		2010		2009								
	(R	estated)	(R	estated)		2008		2007	2006	2011		2010
Cash and cash										\$	\$	
equivalents	\$	7,796	\$	5,295	\$	2,404	\$	713	\$ 1,415	6,498		6,714
Working capital (deficit)	\$	5,881	\$	8,581	\$	3,300	\$	(4,708)	\$ (305)	\$16,912	\$	8,302
Total assets	\$	32,702	\$	13,980	\$	10,104	\$	6,648	\$ 7,005	\$36,318	\$	21,180
Long-term obligations	\$	5,158	\$	6,844	\$	_	- \$	60	\$ 2,229	\$ -	- \$	2,757
Total shareholders'										\$	\$	
equity (capital deficit)	\$	14,697	\$	2,893	\$	3,661	\$	(4,170)	\$ (1,164)	31,618		9,910

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

Introduction

The following discussion should be read in conjunction with the financial statements and notes thereto. Our fiscal year ends December 31. This prospectus contains certain forward-looking statements including, among others, anticipated trends in our financial condition and results of operations and our business strategy. These forward-looking statements are based largely on our current expectations and are subject to a number of risks and uncertainties. Actual results could differ materially from these forward-looking statements. Important factors to consider in evaluating such forward-looking statements include (i) changes in external factors or in our internal budgeting process which might impact trends in our results of operations; (ii) unanticipated working capital or other cash requirements; (iii) changes in our business strategy or an inability to execute our strategy due to unanticipated changes in the industries in which we operate; and (iv) various competitive market factors that may prevent us from competing successfully in the marketplace.

Overview

We design and manufacture miniature displays, which we refer to as OLED-on-silicon-microdisplays, and microdisplay modules for virtual imaging, primarily for incorporation into the products of other manufacturers. Microdisplays are typically smaller than many postage stamps, but when viewed through a magnifier they can contain all of the information appearing on a high-resolution personal computer screen. Our microdisplays use organic light emitting diodes, or OLEDs, which emit light themselves when a current is passed through the device. Our technology permits OLEDs to be coated onto silicon chips to produce high resolution OLED-on-silicon microdisplays.

We believe that our OLED-on-silicon microdisplays offer a number of advantages in near to the eye applications over other current microdisplay technologies, including lower power requirements, less weight, fast video speed without flicker, and wider viewing angles. In addition, many computer and video electronic system functions can be built directly into the OLED-on-silicon microdisplay, resulting in compact systems with lower expected overall system costs relative to alternate microdisplay technologies.

Since our inception in 1996 through 2004, we derived the majority of our revenues from fees paid to us under research and development contracts, primarily with the U.S. government. We have devoted significant resources to the development and commercial launch of our OLED microdisplay products into military, industrial and medical applications world-wide. First sales of our SVGA+ microdisplay began in May 2001 and we launched the SVGA-3D microdisplay in February 2002. Over 200,000 of these products have been sold and fielded. In 2008 the SXGA microdisplay become our first digital display, and in 2011 we introduced the VGA OLED-XL, our lowest powered microdisplay, and the WUXGA OLED-XL which exceeds 1080p HD resolution. As of September 30, 2011, we had a backlog of approximately \$11.3 million in products ordered for delivery through December 31, 2012. This backlog consists of non-binding purchase orders and purchase agreements. These products are being applied or considered for near-eye and headset applications in products such as thermal imagers, night vision goggles, entertainment headsets, handheld Internet and telecommunication appliances, viewfinders, and wearable computers to be manufactured by original equipment manufacturer (OEM) customers. We have also continued to ship our Z800 3DVisor personal display systems. In addition to marketing OLED-on-silicon microdisplays as components, we also offer microdisplays as an integrated package, which we call microviewer that includes a compact lens for viewing the microdisplay and electronic interfaces to convert the signal from our customer's product into a viewable image on the microdisplay. We have also expanded our design and production activities to include display/optical subsystem assemblies for both

military and commercial end-use products. In 2010 we announced the award for production year one from ITT Night Vision for design and production of a display/optical assembly for the US Army Enhanced Night Vision Goggle.

We have developed a strong intellectual property portfolio that includes patents, manufacturing know-how and unique proprietary technologies to create high performance OLED-on-silicon microdisplays and related optical systems. We believe our technology, intellectual property portfolio, and position in the marketplace gives us a leadership position in OLED and OLED-on-silicon microdisplay technology. We believe that we are the only company to demonstrate publicly, market, and produce in significant quantities to the mass market high resolution full-color small molecule OLED-on-silicon microdisplays. We are aware of one company that is beginning to ship OLED microdisplays into the market and one additional company that we believe is preparing to do so.

Company History

As of January 1, 2003, we were no longer classified as a development stage company. We transitioned to manufacturing our product and have significantly increased our marketing, sales, and research and development efforts, and expanded our operating infrastructure. Currently, most of our operating expenses are labor related and semi-fixed. If we are unable to generate significant revenues, our net income in any given period could be less than expected.

Critical Accounting Policies

The Securities and Exchange Commission ("SEC") defines "critical accounting policies" as those that require application of management's most difficult, subjective or complex judgments, often as a result of the need to make estimates about the effect of matters that are inherently uncertain and may change in subsequent periods. Not all of the accounting policies require management to make difficult, subjective or complex judgments or estimates. However, the following policies could be deemed to be critical within the SEC definition.

Revenue and Cost Recognition

Revenue on product sales is recognized when persuasive evidence of an arrangement exists, such as when a purchase order or contract is received from the customer, the price is fixed, title and risk of loss to the goods has changed and there is a reasonable assurance of collection of the sales proceeds. We obtain written purchase authorizations from our customers for a specified amount of product at a specified price and consider delivery to have occurred at the time of shipment. Products sold directly to consumers have a thirty day right of return. Revenue on consumer products is deferred until the right of return has expired.

Revenues from research and development activities relating to firm fixed-price contracts are generally recognized on the percentage-of-completion method of accounting as costs are incurred (cost-to-cost basis). Contract costs include all direct material and labor costs and an allocation of allowable indirect costs as defined by each contract, as periodically adjusted to reflect revised agreed upon rates. These rates are subject to audit by the other party.

Product Warranty

We offer a one-year product replacement warranty. In general, our standard policy is to repair or replace the defective products. We accrue for estimated returns of defective products at the time revenue is recognized based on historical activity as well as for specific known product issues. The determination of these accruals requires us to make estimates of the frequency and extent of warranty activity and estimate future costs to replace the products under warranty. If the actual warranty activity and/or repair and replacement costs differ significantly from these estimates, adjustments to cost of revenue may be required in future periods.

Use of Estimates

In accordance with accounting principles generally accepted in the United States of America, management utilizes certain estimates and assumptions that affect the reported amounts of assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. On an on-going basis, management evaluates its estimates and judgments related to, among others, allowance for doubtful accounts, warranty reserves, inventory reserves, stock-based compensation expense, deferred tax asset valuation allowances, litigation and other loss contingencies. Management bases its estimates and judgments on historical experience and on various other assumptions that are believed to be reasonable under the circumstances, the results of which form the basis for making judgments about the carrying values of assets and liabilities that are not readily apparent from other sources. Actual results could differ from those estimates.

Fair Value of Financial Instruments

eMagin's cash, cash equivalents, accounts receivable, short-term investments, and accounts payable are stated at cost which approximates fair value due to the short-term nature of these instruments. In addition, the long-term investments are stated at cost which approximates fair value. eMagin measures the fair value of our warrants based on

the Monte Carlo Simulation approach.

Stock-based Compensation

eMagin maintains several stock equity incentive plans. The 2005 Employee Stock Purchase Plan (the "ESPP") would, once implemented, provide our employees with the opportunity to purchase common stock through payroll deductions. Employees could then purchase stock semi-annually at a price that is 85% of the fair market value at certain plan-defined dates. As of September 30, 2011, the number of shares of common stock available for issuance was 300,000. As of September 30, 2011, the plan had not been implemented.

The 2003 Plan provides for grants of shares of common stock and options to purchase shares of common stock to employees, officers, directors and consultants. Under the 2003 plan, an incentive stock option ("ISO") is granted at the market value of our common stock at the date of the grant and a non-ISO is granted at a price not to be less than 85% of the market value of the common stock. These options have a term of up to 10 years and vest over a schedule determined by the Board of Directors, generally over a five year period. The amended 2003 Plan provides for an annual increase in common stock available for issuance by 3% of the diluted shares outstanding on January 1 of each year for a period of 9 years which commenced January 1, 2005.

The 2008 Plan adopted and approved by the Board of Directors on November 5, 2008 provides for the issuance of shares of common stock and options to purchase shares of common stock to employees, officers, directors and consultants. The 2008 Plan has an aggregate of 2,000,000 shares.

The 2011 Incentive Stock Plan (the "2011 Plan") was approved by the Company's shareholders on November 3, 2011. The 2011 Plan provides for grants of common stock, and options to purchase common stock, to employees, officers, directors and consultants. The Board of Directors reserved 1.4 million shares of common stock for issuance under the 2011 Plan. In addition, the 2011 Plan provides for an annual increase in common stock available for issuance equal to the greater of 20% of the diluted shares outstanding or the number of shares subject to options granted during the prior 12-months. However, on October 31, 2011 the Board committed to submit an amendment to the 2011 Plan to shareholders to eliminate the provision authorizing an annual increase in stock available and to prohibit the re-pricing or exchange of stock options without stockholder approval. The Board also committed to maintain an average run rate over the year that does not exceed 4.5%. Run rate is defined as the sum of the number of stock options granted during the year, divided by the Company's fully diluted shares outstanding. These options have a term of up to 10 years and vest over a schedule determined by the Compensation Committee.

We account for the measurement and recognition of compensation expense for all share-based payment awards made to employees and directors by estimating the fair value of stock awards at the date of grant using the Black-Scholes option valuation model. Stock-based compensation expense is reduced for estimated forfeitures and is amortized over the vesting period using the straight-line method.

Stock Repurchase Plan

On August 24, 2011, eMagin's Board of Directors approved a stock repurchase plan. The Company has been authorized to repurchase common stock not to exceed \$2.5 million in total value. The common stock repurchased will be considered authorized but un-issued shares. As of September 30, 2011, the Company had not repurchased any common stock.

Income Taxes

In preparing our consolidated financial statements, we are required to estimate income taxes in each of the jurisdictions in which we operate. The process involves estimating our current tax expense together with assessing temporary differences resulting from the differing treatment of items for accounting and tax purposes. These differences result in deferred tax assets and liabilities. Operating losses and tax credits, to the extent not already utilized to offset taxable income also represent deferred tax assets. We must assess the likelihood that any deferred tax assets will be recovered from future taxable income, and to the extent we believe that recovery is not likely, we must establish a valuation allowance. Significant judgment is required in determining our provision for income taxes, deferred tax assets and liabilities and any valuation allowance recorded against our deferred tax assets.

From inception through the third quarter of 2010, we maintained a full valuation allowance against our deferred tax assets as we were unable to determine that it was more likely than not that we would generate sufficient future taxable income to utilize them. During the years ended December 31, 2010, 2009 and 2008, we utilized \$6.3 million, \$4.7 million, and \$0 million, respectively, of historical net operating losses to offset taxable income in each of these periods. At December 31, 2010, we had deferred tax assets, including net operating losses and tax credits that would offset \$111 million of future taxable income. In the fourth quarter of 2010, we determined that it was more likely than not that we would generate future taxable income and, as a result, recorded a \$9.1 million reduction of our deferred tax asset valuation allowance and corresponding income tax benefit.

In determining future taxable income, assumptions are made to forecast operating income, the reversal of temporary timing differences and the implementation of tax planning strategies. Management uses significant judgment in the assumptions it uses to forecast future taxable income which are consistent with the forecasts used to manage the business. Realization of the deferred tax asset is dependent upon future earnings which there is uncertainty as to the timing. We will continue to monitor the realizability of the deferred tax asset.

At December 31, 2010, a partial valuation allowance against the net deferred tax assets was \$32.4 million. At September 30, 2011, eMagin assessed its ability to realize its deferred tax assets by reviewing positive and negative evidence which included our operating results and forecasts of future taxable income and concluded that no change to the valuation allowance was necessary. The partial valuation allowance will be maintained until further sufficient positive evidence exists to support an additional reduction or negative evidence to support an increase in the valuation allowance.

Results of Operations

The following table presents certain financial data as a percentage of total revenue for the periods indicated. Our historical operating results are not necessarily indicative of the results for any future period.

		As	a Per	centa	ige of	Total	Nin		onths ed	
	Year	End	ed De	cemb	er 31,	,	Sept	er 30,	,	
	2010		2009							
	(Restat	ed) (I	Restate	ed)	2008	}	2011		2010)
Consolidated Statements of Operations Data:										
Revenue	100	%	100	%	100	%	100	%	100	%
Cost of goods	100	70	100	70	100	70	100	70	100	70
sold	39		43		57		52		40	
Gross profit	61		57		43		48		60	
Operating expenses:										
Research and development	8		8		11		10		8	
Selling, general and administrative	33		29		33		30		31	
Total operating expenses	41		37		44		40		39	
Income (loss) from operations	20		20		(1)	8		21	
Other expense	(52)	(29)	(9)	12		43	
(Loss) income before provision for income taxes	(33)	(9)	(10)	20		(22)
Income tax (benefit) expense	(29)	_		_		2		_	
Net (loss) income	(4)%	(9)%	(10) %	18	%	(22)%

Three and Nine Months Ended September 30, 2011 Compared to Three and Nine Months Ended September 30, 2010

Revenues

Revenues for the three and nine months ended September 30, 2011 were approximately \$8.3 million and \$21.2 million, respectively, as compared to approximately \$8.3 million and \$22.5 million, respectively, for the three and nine months ended September 30, 2010, a decrease of approximately \$1.3 million or 6% for the nine month period. Lower revenue for the nine month period was primarily due to lower than planned production output which also caused a postponement in filling Z800 system orders and to R&D engineering resources being allocated to production output causing a shortfall in billable hours on R&D contracts.

Product revenue is comprised of sales of displays, Z800 systems, and other hardware. For the three and nine months ended September 30, 2011, product revenue decreased approximately \$0.6 million or 9% and \$1.3 million or 7%, respectively, as compared to the three and nine months ended September 30, 2010. The decrease in product revenue for the three month period was driven by the product mix sold and a decrease in the average sales price per display. The decrease in product revenue for the nine month period was driven primarily by the lack of Z800 system shipments and also by the product mix sold and though, we had an increase in sales volume, the average sales price per display was lower than in the first nine months of 2010. Last year, we produced a custom display module that caused the average sale price to be higher than normal and without this custom display, the average sales price would have increased 3% for the three months ended September 30, 2011. We continue to have unfilled orders even though we made progress in resolving our production issues in the second and third quarters of 2011.

Contract revenue is comprised of revenue from research and development or non-recurring engineering ("NRE") contracts. For the three months ended September 30, 2011, contract revenue increased approximately \$638 thousand or 48% as compared to the three months ended September 30, 2010 and decreased \$80 thousand or 2% as compared to the nine months ended September 30, 2010. As we continued to resolve our production issues in third quarter, it allowed our research and development resources to focus on the active research and development contracts.

Cost of Goods Sold

Cost of goods sold is comprised of costs of product and contract revenues. Cost of product revenue includes materials, labor and manufacturing overhead related to our products. Cost of contract revenue includes direct and allocated indirect costs associated with performance of contracts. Cost of goods sold for the three and nine months ended September 30, 2011 was approximately \$3.9 million and \$10.9 million, respectively, as compared to approximately \$2.8 million and \$9.0 million, respectively, for the three and nine months ended September 30, 2010, an increase of approximately \$1.1 million and \$1.9 million, respectively. Cost of goods sold as a percentage of revenues was 47% and 52%, respectively, for the three and nine months ended September 30, 2011 as compared to 34% and 40%, respectively, for the three and nine months ended September 30, 2010. Though our cost of goods as a percentage of revenue is higher for the three and nine months of 2011 as compared to 2010 as a result of increased labor costs due to additional production shifts and lower yield, we continue to see improvement in our yield in the third quarter of 2011 as we addressed our production issues. We anticipate continued improvement in our yield.

The following table outlines product, contract and total gross profit and related gross margins for the three and nine months ended September 30, 2011 and 2010 (dollars in thousands):

	Three months ended September 30,				Nine mon Septen		
	2011 2010				2011	2010	
	(unaudited)				(unau	1)	
Product revenue gross profit	\$ 3,404	\$	4,831	\$	8,010	\$	11,236
Product revenue gross margin	54%	,)	70%		48 %)	63%
Contract revenue gross profit	\$ 955	\$	637	\$	2,221	\$	2,289
Contract revenue gross margin	49%	,)	48%		48%		49%
Total gross profit	\$ 4,359	\$	5,468	\$	10,231	\$	13,525
Total gross margin	53%	,	66%		48%		60%

The gross profit for the three and nine months ended September 30, 2011 was approximately \$4.4 million and \$10.2 million, respectively, as compared to approximately \$5.5 million and \$13.5 million, respectively, for the three and nine months ended September 3, 2010, a decrease of \$1.1 million and \$3.3 million, respectively. Gross margin was 53% for the three months ended September 2011 down from 66% for the three months ended September 30, 2010. Gross margin was 48% for the nine months ended September 30, 2011 down from 60% for the nine months ended 2010.

The product gross profit for the three and nine months ended September 30, 2011 was approximately \$3.4 million and \$8.0 million, respectively, as compared to approximately \$4.8 million and \$11.2 million, respectively, for the three and nine months ended September 30, 2010, a decrease of \$1.4 million and \$3.2 million, respectively. Product gross margin was 54% and 48%, respectively, for the three and nine months ended September 30, 2011 down from 70% and 63%, respectively, for both the three and nine months ended September 30, 2010. For the three and nine month periods of 2011, our gross margin was unfavorably impacted by an increase in costs being spread over a lower revenue base and a lower effective average selling price per display due to product mix changes. There was improvement in our gross margin in this quarter as compared to 2011 year to date as our revenues increased and our production increased year over year.

The contract gross profit for the three and nine months ended September 30, 2011 was approximately \$1.0 million and \$2.2 million, respectively, as compared to approximately \$0.6 million and \$2.3 million, respectively, for the three and nine months ended September 30, 2010, an increase of \$0.4 million and a decrease of \$0.1 million, respectively. Contract gross margin was 49% and 48%, respectively, for the three and nine months ended September 30, 2011 relatively unchanged from the same periods ended September 30, 2010. Our contract revenues and gross margins year over year have stayed relatively consistent in the 48% to 49% range.

Operating Expenses

Research and Development. Research and development ("R&D") expenses are company-funded and include salaries and related benefits, development materials and other costs specifically allocated to the development of new microdisplay products, OLED materials and subsystems. R&D related costs associated with fulfilling contracts are categorized as contract cost of goods sold. R&D expenses for the three and nine months ended September 30, 2011 were approximately \$0.8 million and \$2.1 million as compared to \$0.5 million and \$1.9 million for the three and nine months ended September 30, 2010. The increase of approximately \$0.3 million and \$0.2 million, respectively, is related to an increase in headcount and related expenses to support R&D activities.

Selling, General and Administrative. Selling, general and administrative expenses consist principally of salaries and related benefits, professional services fees and marketing, general corporate, and administrative expenses. Selling, general and administrative expenses for the three and nine months ended September 30, 2011 were approximately \$2.0 million and \$6.4 million, respectively, as compared to approximately \$2.1 million and \$6.9 million, respectively, for the three and nine months ended September 30, 2010. The selling, general and administrative expenses for the three month period ended September 30, 2011 as compared to September 30, 2010 were relatively unchanged. The decrease of approximately \$0.5 million for the nine months ended September 30, 2011 was primarily related to a reduction of legal fees of \$0.3 million and settlement expenses of \$0.9 million offset by an increase in personnel costs of \$0.4 million, \$0.2 million of recruiting fees, and \$0.1 million associated with charge to bad debt expense.

Other Income (Expense), net. Other income (expense), net consists primarily of interest income earned on investments, interest expense, and income (expense) applicable to the change in the fair value of the warrant liability. For the three and nine months ended September 30, 2011, interest expense primarily associated with the Company's line of credit was approximately \$26 thousand and \$85 thousand, respectively, as compared to approximately \$21 thousand and \$79 thousand, respectively, for the three and nine months ended September 30, 2010. Other income, primarily interest income, for the three and nine months ended September 30, 2011 was approximately \$3 thousand and \$32 thousand, respectively, as compared to approximately \$2 thousand and \$10 thousand, respectively, for the three and nine months ended September 30, 2010.

Change in Fair Value of Warrant Liability. For the three months ended September 30, 2011 and 2010, the change in fair value of the warrant liability was income of \$3.0 million and \$0.7 million, respectively. For the nine months ended September 30, 2011, the change in fair value of the warrant liability was income of \$2.5 million as compared to a charge of \$9.6 million for the nine months ended September 30, 2010. The change in the fair value of the warrant liability is primarily due to the change in the common stock price of eMagin period over period. The change in fair value of the warrant liability had no impact on our cash balances, operations, or operating income. There will be no future effect on earnings for the outstanding warrants due to the modification to remove the anti-dilution provisions.

Year Ended December 31, 2010 Compared to Year Ended December 31, 2009

Revenues

Revenues increased by approximately \$6.7 million to a total of approximately \$30.5 million for the year ended December 31, 2010 from approximately \$23.8 million for the year ended December 31, 2009, representing an increase of 28%. The increase in revenue was due to increased customer demand of our OLED displays and active research and development contracts.

For the year ended December 31, 2010, product revenue increased approximately \$3.8 million as compared to the year ended December 31, 2009. The 19% increase was due to higher customer demand along with a shift in the mix of products. For the year ended December 31, 2010, contract revenue increased 70% or approximately \$2.9 million as compared to the year ended December 31, 2009. The increase was a result of an increase in the number of active research and development projects in 2010 as compared to 2009.

Cost of Goods Sold

Cost of goods sold is comprised of costs of product revenue and contract revenue. Cost of product revenue includes materials, labor and manufacturing overhead related to our products. Cost of contract revenue includes direct and allocated indirect costs associated with performance on contracts. Cost of goods sold for the year ended December 31, 2010 were approximately \$12.0 million as compared to approximately \$10.2 million for the year ended December 31, 2009, an increase of approximately \$1.8 million. Cost of goods sold as a percentage of revenues improved to 39% for the year ended December 31, 2010 from 43% for the year ended December 31, 2009.

The following table outlines product, contract and total gross profit and related gross margins for the years ended December 31, 2010 and 2009 (dollars in thousands):

		For the Year ended December 31,			
	2010	2009			
Product revenue gross profit	\$15,223	\$11,910			
Product revenue gross margin	65	% 60	%		
Contract revenue gross profit	\$3,217	\$1,737			
Contract revenue gross margin	47	% 43	%		
Total gross profit	\$18,440	\$13,647			
Total gross margin	61	% 57	%		

The gross profit for the year ended December 31, 2010 was approximately \$18.4 million as compared to approximately \$13.6 million for the year ended December 31, 2009, an increase of \$4.8 million. Gross margin was

61% for the year ended December 31, 2010 up from 57% for the year ended December 31, 2009. The increase was attributable to increases in product gross margin of 5% and the contract gross margin of 4%.

The product gross profit for the year ended December 31, 2010 was approximately \$15.2 million as compared to approximately \$11.9 million for the year ended December 31, 2009, an increase of \$3.3 million. Product gross margin was 65% for the year ended December 31, 2010 up from 60% for the year ended December 31, 2009. The increase in product gross profit and gross margin was due to higher sales volumes and improved product mix resulting in a higher average selling price in conjunction with a reduction of the warranty accrual. The higher average selling price was a result of the mix of products sold which included custom displays with a higher sales price.

The contract gross profit for the year ended December 31, 2010 was approximately \$3.2 million as compared to approximately \$1.7 million for the year ended December 31, 2009, an increase of \$1.5 million. Contract gross margin was 47% for the year ended December 31, 2010 up from 43% for the year ended December 31, 2009. The contract gross margin is dependent upon the mix of internal versus external third party costs, with the external third party costs causing a lower gross margin and reducing the contract gross profit.

Research and Development Expenses

Research and development expenses include salaries, development materials and other costs specifically allocated to the development of new microdisplay products, OLED materials and subsystems. Research and development expenses for the year ended December 31, 2010 were approximately \$2.4 million as compared to approximately \$2.0 million for the year ended December 31, 2009, an increase of approximately \$0.4 million. The increase was primarily related to an increase in internal research and development of \$0.3 million and personnel expense of \$0.1 million.

Selling, General and Administrative Expenses

Selling, general and administrative expenses consist principally of salaries, fees for professional services including legal fees, as well as other marketing and administrative expenses. Selling, general and administrative expenses for the year ended December 31, 2010 were approximately \$10.1 million as compared to approximately \$6.9 million for the year ended December 31, 2009, an increase of approximately \$3.2 million. The increase is primarily related to severance expense of \$1.1 million, personnel costs including non-cash compensation of \$1.1 million, litigation settlement and legal fees of \$1.5 million offset by a decrease in professional services of \$0.1 million, accounting fees of \$0.1 million and recruiting expenses of \$0.2 million.

Other (Expense) Income

Other income (expense), net consists primarily of interest income earned on investments, interest expense and other costs related to the debt, miscellaneous income and expense applicable to the change in fair value of the warrant liability.

For the year ended December 31, 2010, interest expense was approximately \$115 thousand as compared to approximately \$466 thousand for the year ended December 31, 2009. For the year ended December 31, 2010, the interest expense associated with debt was approximately \$60 thousand, loan fees associated with the new line of credit was approximately \$27 thousand, and interest on liquidated damages expense related to registration payment arrangements of approximately \$28 thousand. For the year ended December 31, 2009, the interest expense associated with debt was approximately \$63 thousand, loan fees associated with the new line of credit were approximately \$13 thousand, interest on liquidated damages expense related to registration payment arrangements was approximately \$28 thousand and the amortization of the deferred costs associated with the debt was approximately \$362 thousand. The decrease in interest expense was primarily a result of fully amortizing the deferred debt issuance costs in 2009.

Other income for the year ended December 31, 2010 was approximately \$16 thousand as compared to approximately \$67 thousand for the year ended December 31, 2009. The other income for the year ended December 31, 2010 was interest income of approximately \$10 thousand and \$6 thousand from equipment salvage. The other income for the year ended December 31, 2009 was interest income of approximately \$6 thousand; approximately \$4 thousand of miscellaneous income; and approximately \$57 thousand for a settlement of a liability.

Change in Fair Value of Warrant Liability. In accordance with ASC 815, adopted January 1, 2009, certain warrants previously classified within equity are reclassified as liabilities. As a result of this reclassification, the accounting guidance requires revaluation of this liability every reporting period. The fair value of the liability at December 31, 2010 and 2009 was measured by using the Monte Carlo Simulation model. The revaluation resulted in a charge of approximately \$16.0 million for the year ended December 31, 2010 as compared to \$6.5 million for the year ended December 31, 2009. This revaluation resulted in non-cash changes to other income (expense) and had no impact on our cash balances, operations, or operating income.

Income Tax (Benefit) Expense

For the year ended December 31, 2010, income tax benefit was approximately \$8.9 million and for the year ended December 31, 2009, the income tax expense was \$90 thousand. For 2010, we incurred \$0.13 million of income tax expense related to alternative minimum tax, which is not offset by operating loss carryforwards. As a result of taxable income over the past two years, we concluded that it was more likely than not that we would continue to generate sufficient taxable income to utilize the benefit from a portion of our net operating loss carryforwards; therefore, we recorded a \$9.1 million reduction of our deferred tax asset valuation allowance and corresponding income tax benefit.

Net Loss

Net loss totaled approximately \$1.1 million for the year ended December 31, 2010 as compared to approximately \$2.3 million for the year ended December 31, 2009. Net loss for the year ended December 31, 2010 would have been approximately \$8.4 million excluding the one-time charges of a \$1.1 million severance charge, \$0.7 million litigation settlement offer, and the tax benefit of \$9.1 million related to the reversal of valuation allowance.

Year Ended December 31, 2009 Compared to Year Ended December 31, 2008

Revenues

Revenues increased by approximately \$5.1 million to a total of approximately \$23.8 million for the year ended December 31, 2009 from approximately \$18.7 million for the year ended December 31, 2008, representing an increase of 27%. The increase in revenue was due to increased customer demand.

For the year ended December 31, 2009, product revenue increased approximately \$4.0 million as compared to the year ended December 31, 2008. The 26% increase was due to higher customer demand and product availability for our OLED displays and z800s. For the year ended December 31, 2009, contract revenue increased 34% or approximately \$1.0 million as compared to the year ended December 31, 2008. The increase was a result of an increase in the research and development projects in 2009 as compared to 2008.

Cost of Goods Sold

Cost of goods sold includes direct and indirect costs associated with production. Cost of goods sold for the year ended December 31, 2009 was approximately \$10.2 million as compared to approximately \$10.7 million for the year ended December 31, 2008, a decrease of approximately \$0.5 million. Cost of goods sold as a percentage of revenues improved to 43% for the year ended December 31, 2009 from 57% for the year ended December 31, 2008. Cost of goods is comprised primarily of material and labor cost with the labor portion of cost of goods mostly fixed. Improved manufacturing yield and lower royalty expense resulted in a lower cost of goods sold.

The following table outlines product, contract and total gross profit and related gross margins for the years ended December 31, 2009 and 2008 (dollars in thousands):

	Dec	December 31,			
	2009	2008			
Product revenue gross profit	\$11,910	\$6,644			
Product revenue gross margin	60	% 42	%		
Contract revenue gross profit	\$1,737	\$1,422			
Contract revenue gross margin	43	% 47	%		
Total gross profit	\$13,647	\$8,066			
Total gross margin	57	% 43	%		

The gross profit for the year ended December 31, 2009 was approximately \$13.6 million as compared to approximately \$8.1 million for the year ended December 31, 2008, an increase of \$5.6 million. Gross margin was 57% for the year ended December 31, 2009 up from 43% for the year ended December 31, 2008. The increase was mainly attributable to our increase in product gross margin of 18% offset by a reduction in the contract gross margin of 4%.

The product gross profit for the year ended December 31, 2009 was approximately \$11.9 million as compared to approximately \$6.6 million for the year ended December 31, 2008, an increase of \$5.3 million. Product gross margin was 60% for the year ended December 31, 2009, up from 42% for the year ended December 31, 2008. The increase was attributed to the fuller utilization of our fixed production overhead due to improved yields and a reduction in

For the Year ended

royalty expense. See Note 12 of the Consolidated Financial Statements - Commitments and Contingencies for further discussion on the royalty expense.

The contract gross profit for the year ended December 31, 2009 was approximately \$1.7 million as compared to approximately \$1.4 million for the year ended December 31, 2008, an increase of \$0.3 million. Contract gross margin was 43% for the year ended December 31, 2009, down from 47% for the year ended December 31, 2008. The contract gross margin is dependent upon the mix of internal versus external third party costs, with the external third party costs causing a lower gross margin and reducing the contract gross profit.

Research and Development Expenses

Research and development expenses include salaries, development materials and other costs specifically allocated to the development of new microdisplay products, OLED materials and subsystems. Research and development expenses for the year ended December 31, 2009 were relatively unchanged at approximately \$2.0 million as compared to approximately \$2.1 million for the year ended December 31, 2008, a decrease of approximately \$0.1 million. The decrease was primarily due to an increase in the allocation of research and development resources and expenses related to contracts to cost of goods sold and a reduction of expense due to the streamlining of the research and development effort in the subsystems area offset by an increase in internal product development costs.

Selling, General and Administrative Expenses

Selling, general and administrative expenses consist principally of salaries, fees for professional services including legal fees, as well as other marketing and administrative expenses. Selling, general and administrative expenses for the year ended December 31, 2009 were approximately \$6.9 million as compared to approximately \$6.3 million for the year ended December 31, 2008, an increase of approximately \$0.6 million. The increase is primarily related to an increase in personnel costs, shareholder related costs, professional fees and tradeshow costs offset by a decrease in reserve for allowance for bad debts and rent expense.

Other (Expense) Income

Other income (expense), net consists primarily of interest income earned on investments, interest expense related to the secured debt, income from the licensing of intangible assets and expense applicable to the change in fair value of the warrant liability.

For the year ended December 31, 2009, interest expense was approximately \$466 thousand as compared to approximately \$2.0 million for the year ended December 31, 2008. For the year ended December 31, 2009, the interest expense associated with debt was approximately \$63 thousand, loan fees associated with the new line of credit were approximately \$13 thousand, interest on liquidated damages expense related to registration payment arrangements was approximately \$28 thousand and the amortization of the deferred costs associated with the debt was approximately \$362 thousand. Interest expense for the year ended December 31, 2008 was comprised of interest associated with debt of approximately \$0.7 million; the amortization of the deferred costs associated with debt of approximately \$1.3 million; the amortization of the debt discount associated with debt of approximately \$25 thousand; and other expenses of approximately \$2 thousand. The decrease in interest expense was primarily a result of carrying a lower balance on our line of credit, the repayment and conversion of the 8% Senior Secured Convertible Notes in December 2008, and lower amortization of deferred debt issuance costs.

Other income for the year ended December 31, 2009 was approximately \$67 thousand as compared to approximately \$400 thousand for the year ended December 31, 2008. The other income for the year ended December 31, 2009 was interest income of approximately \$6 thousand; approximately \$4 thousand of miscellaneous income; and approximately \$57 thousand for a settlement of a liability. Other income for the year ended December 31, 2008 was interest income of approximately \$11 thousand; approximately \$18 thousand of income from equipment salvage; gain on the license of intangibles of approximately \$557 thousand (see Note 12 of the Consolidated Financial Statements - Commitments and Contingencies); and offset by approximately \$186 thousand of liquidated damages expense related to registration payment arrangements.

Change in Fair Value of Warrant Liability. In accordance with ASC 815, adopted January 1, 2009, certain warrants previously classified within equity are reclassified as liabilities. As a result of this reclassification, the accounting guidance requires revaluation of this liability every reporting period. The fair value of the liability at December 31, 2009 was measured by using the Monte Carlo Simulation model. The revaluation resulted in a charge of \$6.5 million for the year ended December 31, 2009. This revaluation resulted in non-cash changes to other income (expense) and had no impact on our cash balances, operations, or operating income.

Income Tax Expense

For the year ended December 31, 2009, income tax expense was approximately \$90 thousand. We have net operating loss carryforwards to offset taxable income in 2009; however we are subject to alternative minimum tax ("AMT"). For the year ended December 31, 2008, the income tax expense was \$0 thousand as we had a net loss.

Liquidity and Capital Resources

As of September 30, 2011, we had approximately \$13.7 million of cash, cash equivalents, and investments in certificates of deposit ("CDs") as compared to \$12.4 million at December 31, 2010. Of the \$13.7 million in cash, approximately \$7.2 million was invested in CDs.

Sources and Uses of Cash

								Nine Montl			
		Year e	nde	d Decembe	er 31	l,		September 30,			
		2010		2009		2008		2011		2010	
Cash flow data:								(unaud	ited)	
Net cash provided by operating activities	\$	8,294	\$	5,260	\$	138	\$	1,609	\$	6,608	
Net cash used in investing activities		(6,848)		(721)		(311)		(3,995)		(5,761)	
Net cash provided by (used in) financing											
activities		1,055		(1,648)		1,864		1,088		572	
Net increase (decrease) in cash and cash											
equivalents		2,501		2,891		1,691		(1,298)		1,419	
Cash and cash equivalents, beginning of											
period		5,295		2,404		713		7,796		5,295	
Cash and cash equivalents, end of period	\$	7,796	\$	5,295	\$	2,404	\$	6,498	\$	6,714	
								Nine Montl	hs E	Ended	
	Year ended December 31, September 30,								30,		
		2010		2009		2008		2011		2010	
Cash, cash equivalents, and investments in											
certificates of deposits	\$	12,396	\$	5,395	\$	2,501	\$	13,743	\$	10,314	

Cash Flows from Operating Activities

Cash flow provided by operating activities during the nine months ended September 30, 2011 was approximately \$1.6 million, attributable to our net income of approximately \$3.8 million offset by net non-cash expenses of \$0.8 million and the change in operating assets and liabilities of \$1.4 million. Cash flow provided by operating activities during the nine months ended September 30, 2010 was approximately \$6.6 million, attributable to our net loss of approximately \$5.0 million offset by non-cash expenses of approximately \$10.8 million and approximately \$0.8 million from the change in operating assets and liabilities.

Cash flow provided by operating activities for the years ended December 31, 2010, 2009, and 2008 were \$8.3 million, \$5.3 million, and \$0.1 million, respectively. For the year ended December 31, 2010, operating activities provided \$8.3 million in cash, which was attributable to our net loss of approximately \$1.1 million offset by approximately \$0.8 million from the change in operating assets and liabilities and the net non-cash expenses of \$8.6 million including approximately \$9.1 million of non-cash income related to reversal of a portion of a deferred tax valuation allowance and approximately \$16.0 million of non-cash loss related to the change in the fair value of the warrant liability. For the year ended December 31, 2009, net cash provided by operating activities was approximately \$5.3 million, attributable to our net loss of approximately \$2.3 million and approximately \$0.5 million from the change in operating activities for the year ended December 31, 2008 was approximately \$8.1 million. Net cash provided by operating activities for the year ended December 31, 2008 was approximately \$0.1 million, attributable to improved net loss of approximately \$1.9 million, approximately \$1.1 million from the change in operating assets and liabilities and offset by non-cash expenses of approximately \$3.0 million.

Cash Flows from Investing Activities

Cash used in investing activities during the nine months ended September 30, 2011 was approximately \$4.0 million of which \$2.6 million purchased CDs and approximately \$1.4 million for equipment purchases primarily for upgrading our production line. Cash used in investing activities during the nine months ended September 30, 2010 was

approximately \$5.8 million to purchase equipment of \$2.3 million for the production line and purchase CDs of \$3.5 million.

Cash used in investing activities for the years ended December 31, 2010, 2009, and 2008 were \$6.8 million, \$0.7 million, and \$0.3 million, respectively. For the year ended December 31, 2010, investing activities used approximately \$6.8 million in cash, which was primarily the result of approximately \$4.5 million in purchases of CDs and approximately \$2.3 million for equipment purchases primarily for upgrading our production line. For the year ended December 31, 2009, net cash used in investing activities was approximately \$0.7 million primarily related to the purchase of equipment. Net cash used in investing activities for the year ended December 31, 2008 was approximately \$0.3 million primarily related to the purchase of equipment.

Cash Flows from Financing Activities

Cash provided by financing activities during the nine months ended September 30, 2011 was approximately \$1.1 million, representing proceeds from the exercise of stock options and warrants as compared to the cash provided by financing activities during the nine months ended September 30, 2010 was approximately \$0.6 million, also from the exercise of stock options and warrants.

Cash provided by financing activities was \$1.1 million for the year ended December 31, 2010, cash used in financing activities was \$1.6 million for the year ended December 31, 2009, and cash provided by financing activities was \$1.9 million for the year ended December 31, 2008.

For the year ended December 31, 2010, financing activities provided approximately \$1.1 million in cash which was the result of proceeds from the exercise of stock options and warrants. Net cash used by financing activities for the year ended December 31, 2009 was approximately \$1.6 million primarily to pay down the line of credit. Net cash provided by financing activities during the year ended December 31, 2008 was approximately \$1.9 million and was comprised of approximately \$5.5 million from proceeds of sale of common and preferred stock, net of issuance costs and approximately \$1.9 million from proceeds from the line of credit offset by the payments of long-term debt of approximately \$5.5 million.

Credit Facility

At September 30, 2011, we had a credit facility with Access Business Finance, LLC ("Access") that provides for up to a maximum amount of \$3 million based on a borrowing base equivalent of 75% of eligible accounts receivable. The interest on the credit facility is equal to the Prime Rate plus 5% but may not be less than 8.25% with a minimum monthly interest payment of \$1 thousand. The credit facility will automatically renew on September 1, 2012 for a one year term unless written notice is provided. We did not draw on our credit facility during the first nine months of 2011.

The credit facility contains the customary representations and warranties as well as affirmative and negative covenants. We were in compliance with all debt covenants as of September 30, 2011.

We expect our business to experience revenue growth which may result in higher accounts receivable levels and may require increased production and/or higher inventory levels. We anticipate that our cash needs to fund these requirements as well as other operating or investing cash requirements over the next twelve months will be less than our current cash on hand, investments and the cash we anticipate generating from operations. We anticipate that we will not require additional funds over the next twelve months other than perhaps for discretionary capital spending. If unanticipated events arise during the next twelve months, we believe we can raise sufficient funds. However, if we are unable to obtain sufficient funds, we may have to reduce the size of our organization and/or be forced to reduce and/or curtail our production and operations, all of which could have a material adverse impact on our business prospects.

Contractual Obligations

The following chart describes the outstanding contractual obligations of eMagin as of September 30, 2011 (in thousands):

	Payments due by period								
	T	Total		1 Year		Years	4-5 Years	S	
Operating lease obligations	\$	3,231	\$	1,219	\$	2,012	\$	_	
Line of credit		11		11		_	_	_	
Purchase obligations (a)		5,670		5,670		_	_		
Total	\$	8,912	\$	6,900	\$	2,012	\$		

(a) The majority of purchase orders outstanding contain no cancellation fees except for minor re-stocking fees.

Off-Balance Sheet Arrangements

We have no off balance sheet arrangements that are reasonably likely to have a current or future effect on our financial condition, revenues, results of operations, liquidity or capital expenditures.

Effect of Recently Issued Accounting Pronouncements

In June 2011, the Financial Accounting Standards Board ("FASB") issued an accounting standard update relating to the presentation of other comprehensive income. The accounting update eliminates the option to present components of other comprehensive income as part of the statement of stockholders' equity. Instead, companies must report comprehensive income in either a single continuous statement of comprehensive income (which would contain the current income statement presentation followed by the components of other comprehensive income and a total amount for comprehensive income), or in two separate but consecutive statements. This guidance is effective for the Company's fiscal year beginning January 1, 2012. The Company does not expect the guidance to impact its consolidated financial statements.

In May 2011, the FASB issued an accounting standard update related to fair value measurements and disclosures to improve the comparability of fair value measurements presented and disclosed in financial statements prepared in accordance with United States GAAP and International Financial Reporting Standards. This guidance includes amendments that clarify the intent about the application of existing fair value measurement requirements, while other amendments change a principle or requirement for measuring fair value or for disclosing information about fair value measurements. Specifically, the guidance requires additional disclosures for fair value measurements that are based on significant unobservable inputs. The updated guidance is to be applied prospectively and is effective for the Company's interim and annual periods beginning January 1, 2012. The adoption of this guidance is not expected to have a material impact on the Company's consolidated financial statements.

BUSINESS

Recent Developments

eMagin Corporation ("eMagin, "we," "our," or "us,") is a leader in the manufacture of microdisplays using OLED (organic light emitting diode) technology. We design, develop, manufacture, and market OLED on silicon microdisplays, virtual imaging products which utilize OLED microdisplays, and related products. We also perform research in the OLED field. Our virtual imaging products integrate OLED technology with silicon chips to produce high-resolution microdisplays smaller than one-inch diagonally which, when viewed through a magnifier, create virtual images that appear comparable in size to that of a computer monitor or a large-screen television. Our products enable our original equipment manufacturer ("OEM") customers to develop and market improved or new electronic products, especially products that are mobile and highly portable. We believe that virtual imaging will become an important way for increasingly mobile people to have quick access to high resolution data, work, and experience new more immersive forms of communications and entertainment.

We believe our OLED microdisplays offer a number of significant advantages over other microdisplay options for near-to-eye applications including greatly increased power efficiency, less weight, and wider viewing angles. Using our active matrix OLED technology, many computer and electronic system functions can be built directly into the OLED microdisplay, resulting in compact, high resolution, power efficient systems. We have developed our own intellectual property and accumulated over 10 years of manufacturing know-how to create high performance OLED microdisplays.

As the first to exploit OLED technology for microdisplays, we believe that we enjoy a significant advantage in the commercialization of microdisplays for virtual imaging. We believe we are currently the only company to sell active matrix small molecule OLED-on-silicon microdisplays in production quantities.

eMagin Corporation was created through the merger of Fashion Dynamics Corporation ("FDC"), which was organized on January 23, 1996 under the laws of the State of Nevada and FED Corporation ("FED"), a developer and manufacturer of optical systems and microdisplays for use in the electronics industry. Simultaneous with this merger, we changed our name to eMagin Corporation. eMagin is incorporated in the state of Delaware.

We derive the majority of our revenue from sales of our OLED microdisplay products. We also generate revenue from sales of optics, microdisplays combined with optics ("microviewers"), and virtual imaging systems (primarily our Z800 3DVisor TM). In addition we earn revenue from non-recurring engineering ("NRE") projects and under government contracts that support some of our research and development programs.

Using our active matrix OLED technology, many computer and video electronic system functions can be built directly into the OLED microdisplay, resulting in compact systems with expected lower overall system costs relative to alternative microdisplay technologies. Already proven in commercialized military and commercial systems, our portfolio of OLED microdisplays deliver high-resolution, flicker-free virtual images, working effectively even in extreme temperatures and high-vibration conditions with greatly increased system level power efficiency, less weight and wider viewing angles.

Our Technology Platforms

Small Molecule, Top-Emitting Active Matrix OLED Technology

There are two basic classes of OLED technology, dubbed single molecule or small molecule (monomer) and polymer. Our microdisplays are currently based upon active matrix small molecule OLED technology, which we refer to as

active matrix OLED ("AMOLED") because we build the displays directly on silicon chips. Our AMOLED technology uniquely permits millions of individual low-voltage light sources to be built on low-cost, silicon computer chips to produce single color, white or full-color display arrays. Using our OLED technology, many computer and video electronic system functions can be built directly into the silicon chip, under the OLED film, resulting in very compact, integrated systems with lowered overall system costs relative to alternative technologies.

OLEDs are thin films of stable organic materials that emit light of various colors when a voltage is impressed across them. OLEDs are emissive devices, which mean they create their own light, as opposed to liquid crystal displays, which require a separate light source. As a result, OLED devices use less power and can be capable of higher brightness and fuller color than liquid crystal microdisplays. Because the light they emit is Lambertian, which means that it appears equally bright from most forward directions, a moderate movement in the eye does not change the image brightness or color as it does in other technologies.

We have developed numerous and significant enhancements to OLED microdisplay technology as well as key silicon circuit designs to effectively incorporate the OLED film on a silicon integrated circuit. For example, we have developed a unique, top-emitting structure for our OLED devices that enables OLED displays to be built on opaque silicon integrated circuits rather than only on glass. Our OLED devices emit full visible spectrum light that is isolated with color filters to create full color images. Our microdisplays have a brightness that can be greater than that of a typical notebook computer and can have a potential useful life of over 50,000 operating hours, in certain applications. New materials and device improvements, such as our OLED-XL TM technology, offer the potential for even better performance for brightness, efficiency, and lifespan. In addition to our active matrix OLED technology, we have developed compact optic and lens enhancements which, when coupled with the microdisplay, provide the high quality large screen appearance that we believe a large proportion of the marketplace demands.

We believe that our AMOLED technology provides significant advantages over other microdisplay technologies in our targeted microdisplay markets. We believe these key advantages include:

- · Low power consumption for improved battery life and longer system life;
- · High-speed performance resulting in clear video images;
- · Wide angle light emission resulting in large apparent screen size;
- · Wide operating temperature range;
- · Good environmental stability (vibration and humidity);
- · Low manufacturing cost; and
- · Low cost system solutions.

Prism Optics

High quality, large field of view lenses with a wide range for eye positioning are essential for using our displays in near-eye systems. We have developed advanced molded plastic prism lenses which permit our AMOLED microdisplays to provide large field of view images that can be viewed for extended periods with reduced eye-fatigue. We have engaged a firm to manufacture our lenses in order to provide them in larger quantities to our customers and are using them in our own Z800 3DVisor personal display systems.

Our Market Opportunities

The growth potential of our selected target market segments has been investigated using information gathered from key industry market research firms and resources, including Consumer Electronics Association, DisplaySearch, Mobile Display Report, Frost and Sullivan, McLaughlin Group, Nikkei, VisionGain and others. Such data was obtained using published reports and data obtained at industry symposia. We have also relied substantially on market projections obtained privately from industry leaders, industry analysts, and current and potential customers.

Head-wearable display products incorporate microdisplays mounted in or on eyeglasses, goggles, simple headbands, helmets, or hardhats, and are often referred to as head-mounted displays (HMDs) or headsets. Head-wearable displays may block out surroundings for a fully immersive experience, or be designed as "see-through" or "see-around" to the user's surroundings. They may contain one (monocular) or two (binocular) displays. Some of the increased current interest is due to accelerating the timetable to adapt such systems to military applications such as night vision and fire

and rescue applications. The virtual-imaging markets we are targeting broadly fall into the categories of military, industrial/medical, and consumer though many products serve multiple markets ("dual use"). Within each of these market sectors, we believe that our OLED microdisplays, when combined with compact optic lenses, will become a key component for a number of mobile electronic products.

Military/First Responder

Properly implemented, we believe that head-mounted systems incorporating our microdisplays increases the user's effectiveness by allowing hands-free operation and increasing situational awareness with enough brightness for use in daylight, yet controllable for nighttime light security. As a COTS (commercial off the shelf) component, OLED microdisplays intrinsically demonstrate performance characteristics important to military and other demanding commercial and industrial applications, including high contrast, wide dimming range, shock and vibration resistance and insensitivity to high G-forces. The image does not suffer from flicker or color breakup in vibrating environments, and the microdisplay's wide viewing angle allows ease of viewing for long periods of time. Most importantly, our OLED's very low power consumption reduces battery weight and increases allowed mission length. The OLED's inherent wide temperature tolerance range is especially of interest for military applications because the display can turn on instantly at temperatures far below freezing and can operate at very high temperatures in desert conditions. Our SXGA OLED-XLTM microdisplay provides power advantages over other microdisplay technologies, particularly liquid crystal displays which require backlights and heaters and cannot provide instant-on capabilities at low temperatures.

Our products' military applications primarily fall into three broad areas: (1) helmet-mounted displays for situational awareness and data, (2) night vision/thermal imaging goggles and viewers, and (3) training and simulation devices. Similar systems are of interest for other military applications as well as for demanding operations such as urban security, homeland defense, fire and rescue.

Situational Awareness. Situational awareness products include head mounted displays which are used to display mapping, logistics and status and handheld imagers for border patrol and training. In certain situations these products are combined with a weapon system in order to give the user the capability of selecting targets without direct exposure. Our OLED microdisplays have already been commercially incorporated into a number of military situational awareness programs including: US Army Land Warrior Program, U.S. Army Mounted Warrior Program, US Army Remote Viewer Program, FELIN Fantassin à Equipements et Liaisons Intégrés Program (French Infantryman with Networked Equipment), and Israeli Advanced Integrated Soldier System, among others. OEM products include Intevac Vision Systems' I-PortTM EX3, I-PortTM, Night-PortTM and Binocular 50TM.

Night Vision/Thermal Imaging. Night vision goggles allow the user to see in low light conditions. The most modern versions usually include two different technologies: infrared/thermal, and image intensification. Third and fourth generation military devices usually use some combination of the two modes. Thermal imagers detect infrared energy (heat) and convert it into an electronic signal. The resulting signal needs to be presented on a display. Heat sensed by an infrared camera can be very precisely quantified, or measured, allowing the user to not only monitor thermal performance, but also identify and evaluate the relative severity of heat-related problems. Thermal imaging systems can be stand-alone handheld systems or integrated as part of the aiming mechanism for a larger system. Our OLED microdisplays are typically targeted to uncooled systems, as opposed to systems that require external cooling in order to increase their sensitivity. Advances in sensor technology, both in sensitivity and resolution as well as economic efficiency, have been the driving factors in the adoption of thermal technologies for military applications. The power efficiency and environmental ruggedness of our products are strong competitive advantages, particularly in these small hand-held non-cooled systems. Fielded products incorporating eMagin OLED microdisplays include Northrop Grumman's Lightweight Laser Designator Rangefinders (LLDR), Thales SOPHIETM handheld thermal imagers, and Thales MINIETM, LUCIETM, and MONIETM night vision goggles.

Training and Simulation. Our OLED microdisplays and our Z800 3DVisor have been acquired by OEMs for use with their simulation and training products. The Z800's capability to integrate 360 degree head tracking and stereo vision, as well as its wide field of view are attractive attributes for any simulation or virtual reality system. Examples of commercialized training and simulation products incorporating our products include: Cubic CombatRediTM tactical man-worn system with wireless communication, Drive Square's portable in-vehicle simulator, NVIS' Virtual Binocular SVTM and Monoscope SVTM, Quantum 3D ExpeditionDITM, Rockwell Collins' SimEye SX45TM and SimEye SX60TM, and Sensics' xSight.TM

Our displays have already been commercialized or prototyped for situational awareness and night vision/thermal imaging applications by military systems integrators including Elbit, Insight Technologies, Intevac Vision Systems, Nivisys, Oasys Technology, Qioptiq, Rockwell Collins, Saab, Sagem, and Thales, among many others. Night Vision Equipment Corporation's HelmetIR-50TM, a lightweight, military helmet mounted thermal imager, which provides hands-free operation and allows viewers to see through total darkness, battlefield obscurants, and even foliage, is the first OLED-equipped product to be listed on the US Government's GSA schedule. Similar systems are of interest for other military applications as well as for related operations such as urban security, fire and rescue.

Commercial, Industrial, and Medical

We believe that a wide variety of commercial and industrial markets offer significant opportunities for our products due to increasing demand for instant data accessibility in mobile workplaces. Some examples of potential microdisplay applications include: immediate access to inventory such as parts, tools and equipment availability; instant accessibility to maintenance or construction manuals; routine quality assurance inspection; endoscopic surgery; and real-time viewing of images and data for a variety of applications. As one potential example, a user wearing a HMD while using test equipment, such as oscilloscopes, can view technical data while simultaneously probing printed circuit boards. Current commercial products equipped with our OLED microdisplays in these sectors include those produced by Liteye, FLIR Systems, NordicNeuroLab, VRmagic GmbH, Sensics, and Total Fire Group, among others.

Consumer

We believe that the most significant driver of the longer term near-eye virtual imaging microdisplay market is growing consumer demand for mobile access to larger volumes of information and entertainment in smaller packages. This desire for mobility has resulted in the development of mobile video personal viewer products in two general categories: (i) an established market for electronic viewers incorporated in products such as viewfinders for digital

cameras and video cameras which may potentially also be developed as personal viewers for cell phones and (ii) an emerging market for headset-application platforms which include accessories for mobile devices, portable DVD systems, electronic games, and other entertainment, and wearable computers.

As our OLED displays are manufactured in increasingly higher volumes at reduced costs, we believe that our OLED microdisplay products will be increasingly well positioned to compete with and displace liquid crystal displays in the rapidly growing consumer market as demand for higher-resolution, and better image quality evolves to meet the wish for more sophisticated Personal Viewers. Examples of potential applications for mobile Personal Viewers include handheld personal computers and mobile devices (such as smartphones, iPodsTM), whose small, direct view screens are often limitations, but which are now capable of running software applications that would benefit from a larger display accessory and entertainment and gaming video headset systems, which permit individuals to privately view television, including HDTV, video CDs, DVDs and video games on virtual large screens or stereovision.

Our Products

Our commercial microdisplay products based on our SVGA series OLED microdisplays, first introduced in 2001, have received award recognition including: SID Display of the Year and Electronic Products Magazine Product of the Year. In 2008 we introduced engineering samples of our SXGA OLED microdisplays. We began selling significant quantities of the SXGA product in 2010. In Q4 of 2011 we began selling preproduction samples of the WUXGA OLED microdisplays, which provide higher resolution than most HD flat panel TVs at 1920 x 1200 pixels. In 2006 we introduced our OLED-XL technology, which provides longer luminance half-life and enhanced efficiency for all of our microdisplay product lines. Further OLED developments have led to continuous luminance efficiency improvements including the recent qualification of a 'High Brightness' OLED process that is more the twice as efficient as the original OLED-XL process. eMagin OLED display products are being applied or considered for near-eye and headset applications in products to be manufactured by OEM customers for a wide variety of military, medical, industrial, and consumer applications. We offer our products to OEMs and other buyers as both separate components, integrated bundles coupled with our own optics, or full systems. We also offer engineering support to enable customers to quickly integrate our products into their own product development programs and offer design of customized displays with resolutions or features to meet special customer requirements.

SVGA+ OLED Microdisplay Series (Super Video Graphics Array of 800x600 plus 52 added columns of data). Our 0.62 inch diagonal SVGA+ OLED microdisplays have a resolution of 852x600 pixels. The product was dubbed "SVGA+" because it has 52 more display columns than a standard SVGA display, permitting users to run either (1) standard SVGA (800 x 600 pixels) to interface to the analog output of many portable computers or (2) 852 x 480, using all the data available from a DVD player in a 16:9 wide screen entertainment format. The display also has an internal NTSC monochrome video decoder for low power night vision systems. The SVGA+ Rev3 OLED-XL microdisplay, the latest version of eMagin's highest volume seller, uses less than 115 mW power in monochrome, such as for thermal imaging applications, and lower than 175 mW at 400 cd/m2 (60Hz video at 70 cd/m2) for full color video. The SVGA+ Rev3 OLED-XL has simpler calibration over temperature and is ideal for demanding binocular luminance and color matching. It also shares all the functional and design characteristics of eMagin's original SVGA OLEDs, responding instantly at temperatures as low as -40 degrees C.

SVGA-3D OLED Microdisplay (Super Video Graphics Array plus built-in stereovision capability). Our 0.59 inch diagonal SVGA-3D OLED microdisplays have a resolution of 800x600 triad pixels (1.44 million picture elements). A built-in circuit provides compatibility with single channel frame sequential stereoscopic vision without additional external components. The SVGA-3D OLED-XL is primarily used as components of our Z800 3DVisor.

SXGA OLED-XL (Super eXtended Graphics Array, 1280 x 1024). Our SXGA OLED microdisplay with 0.77 inch diagonal active area provides 3,932,160 sub-pixels in an active area that is only .15 inches larger than our SVGA+ microdisplay. The 1280 x 1024 triad pixel array comprises triads of vertical sub-pixels stacked side by side to make up each 12 x 12mm color pixel. The SXGA OLED-XL microdisplay offers both analog and digital signal processing, requiring less than 200mW under typical color operation. The new SXGA microdisplays provide versatility and flexibility for OEM developers though a FPGA driver design available on a separate, lower power driver board, or as source code for integration into end product electronics for maximum power efficiency. The supported video formats are SXGA, 720p, DVGA (through 1280 x 960 pixel doubling), and both frame sequential and field sequential stereovision. Additional enhancements include increased pixel uniformity, improved color gamut, on-chip temperature sensor and compensation, and compatibility with both analog RGB and digital video signals. On-board circuitry ensures consistent color and brightness over a wide range of operating temperatures.

WUXGA OLED-XL (Widescreen Ultra eXtended Graphics Array, 1920 x 1200). Our WUXGA OLED-XL microdisplay provides higher resolution than most HD (High Definition) flat screen televisions. With a triad sub-pixel structure this display is built of 7,138,360 active dots at 3.3 microns each. The WUXGA OLED-XL is built upon the

voltage pixel drive approach first developed for the SXGA OLED-XL which provides improved uniformity, ultra-high contrast (measured at greater that 100,000:1) and lower power. The advanced of the WUXGA design features eMagin's proprietary "Deep Black" architecture that ensures that off-pixels are truly black, automatically optimizes contrast under all conditions, and delivers better pixel to pixel uniformity. The WUXGA OLED-XL includes a very low-power, low-voltage-differential-signaling (LVDS) serial interface and the overall display power requirement is typically less than 350 mW running standard video. Also included is eMagin's proprietary motion enhancement technology which smoothes video display and virtually eliminate unwanted artifacts. Like the SXGA, the WUXGA provides a FPGA driver design available on a separate, lower power driver board, or as source code for integration into end product electronics giving OEM developers maximum versatility and flexibility. On-board circuitry ensures consistent color and brightness over a wide range of operating temperatures.

VGA OLED-XL (Video Graphics Array, 640 x 480). The VGA OLED-XL microdisplay was added to eMagin's product line in April 2011 and is our smallest (0.5 inches) and lowest powered (<60 mW monochrome/<100 mW color). The VGA OLED-XL utilizes the same voltage pixel drive architecture and "Deep Black" technology as the SXGA and WUXGA designs and includes motion artifact reduction technology like the WUXGA. Also like the SXGA and WUXGA the VGA provides a FPGA driver design for maximum flexibility and versatility. The VGA interface is 30-bit digital RGB.

Lens and Design Reference Kits. We offer a WF05 prism optic, with mounting brackets or combined with OLED microdisplays to form an optic-display module. We provide Design Reference Kits, which include a microdisplay and associated electronics to help OEMs evaluate our microdisplay products and to assist their efforts to build and test new products incorporating our microdisplays.

Integrated Modules. We provide near-eye virtual imaging modules that incorporate our OLED-on-silicon microdisplays with our lenses and electronic interfaces for integration into OEM products. We have shipped customized modules to several customers, some of which have incorporated our products into their own commercial products.

Z800 3DVisorTM Our Z800 3DVisorsTM give users the ability to work with their hands while simultaneously viewing information or video on the display. The Z800 3DVisor enables more versatile portable computing, using a 0.59-inch diagonal microdisplay (SVGA-3D capable of delivering an image that appears comparable to that of a 19-inch monitor at 22 to 24 inches from the eye, or a 105 inch movie screen at 12 foot distance.) Our systems are currently being used for personal entertainment, electronic gaming, and military training and simulation, among other applications. This product has received industry recognition including: Digital Living Class 2005 Innovators, Consumer Electronics Association's Consumer Electronics Show (CES) 2006 Best of Innovation Awards for the entire display category as well as a Design and Innovations Award for the electronic gaming category, and, was recognized as one of Advanced Imaging's Solutions of the Year, as integrated in Chatten Associates' head-aimed remote viewer.

Government Contract Funding

We derive a portion of our revenue from funding that we receive pursuant to research contracts or subcontracts funded by various agencies of the U.S. Government. The revenue that we recognize from these contracts represents reimbursement by various U.S. Government entities. In August 2008, we were awarded a contract for the development of power efficient microdisplays for US Army Night Vision. In October 2009, this agreement was renewed and we continue to provide research and development for these displays. In July 2007 we were awarded a contract for the development of an ultra-high resolution display for US Army Telemedicine. In May 2008 and September 2009, this agreement was renewed and we continue to provide research and development services for these displays. Our government contracts require us to conduct the research effort described in the statement of work section of the contract. These contracts may be modified or terminated at the discretion of the government and typically are subject to appropriation and allocation of the required funding on an annual basis. On contracts for which we are the prime contractor, we subcontract portions of the work to various entities and institutions. Approximately 16% of 2010 revenue was related to research contracts funded by the U.S. Government as compared to 11% in 2009.

Our Strategy

Our strategy is to strengthen our leadership position as a worldwide supplier of microdisplays and virtual imaging technology solutions for applications in high growth segments of the electronics industry by capitalizing on our experience and expertise in active matrix OLED technology. We aim to provide microdisplays and complementary accessories to enable OEM customers to develop and manufacture new and enhanced electronic products. Some key elements of our strategy to achieve these objectives include the following:

Strengthen our technology leadership. As the first to exploit AMOLED microdisplays, we
believe that we enjoy a significant advantage in bringing this technology to market. By
continuing to invest in research and development, and protecting our intellectual property, we
expect to further develop performance improvements and provide a competitive edge for our
customers who integrate our displays into their end products.

- Optimize microdisplay manufacturing efficiencies while protecting proprietary processes. We intend to reduce our production costs primarily through increasing manufacturing yield and lowering fixed costs through reduced cycle time and increased automation, as well as equipment upgrades. We outsource certain portions of microdisplay production, such as chip fabrication, to minimize both our costs and time to market. We intend to retain the OLED-related processes in-house, where we have a core competency and manufacturing expertise. We also believe that by keeping these processes under tight control we can better protect our proprietary technology and process know-how. This strategy will also enhance our ability to continue to optimize and customize processes and devices to meet customer needs.
- Build and maintain strong design capabilities. We employ in-house design capabilities supplemented by outsourced design services. Building and maintaining this capability will allow us to reduce engineering costs, accelerate the design process and enhance design accuracy to respond to our customers' needs as new markets develop. In addition, we intend to maintain a product design staff capable of rapidly developing prototype products for our customers and strategic partners. Contracting third party design support to meet demand and for specialized design skills may also remain a part of our overall long term strategy.
- Leverage strategic relationships. External relationships play an important role in our research and development efforts. Suppliers, equipment vendors, government organizations, contract research groups, external design companies, customer and corporate partners, consortia, and university relationships all enhance the overall research and development effort and bring us new ideas and solutions. In addition, we participate in industry associations such as Society Information Display ("SID"), FlexTech Alliance (formerly known as United States Display Consortium), Consumer Electronics Association, and the Association of the United States Army, among others. Furthermore, we have established a CRADA (Cooperative Research and Development Agreement) with the US Army/RDECOM/NVESD as of August 2010 for the purpose of evaluating and characterizing new and existing AMOLED microdisplay configurations. This agreement expires in 2015. We believe that strategic relationships allow us to better determine the demands of the marketplace and, as a result, allow us to focus our future research and development activities to satisfy our customers' evolving requirements.

Sales and Marketing

We primarily provide our OLED display and optics components for OEMs to incorporate into their branded products and sell through their own well-established distribution channels. We have traditionally marketed and sold our products to customers through targeted selling, promotions, select advertising and attendance at trade shows. We identify companies with end products and applications for which we believe our products will provide a key differentiator. Marketing efforts focus on identifying prospects and communicating the product performance attributes foremost in the minds of purchasing decision-makers. This approach is intended to ensure the highest possible return on investment for our marketing expense.

We market our products in North America, Asia, and Europe directly from our sales office located in our Bellevue, Washington facility. We also have distributors in China and Korea. We sell the Z800 3DVisor to individual buyers, OEM systems and equipment customers, through distributors, and through our e-commerce website, www.3dvisor.com. The contents of our e-commerce website are not part of this Report.

An OEM design cycle typically requires between 6 and 36 months, depending on the uniqueness of the market, the complexity of the end product, or in the case of military OEM customers, government procurement schedules. Because our microdisplays are the main functional component that defines many of our customers' end products, we work closely with customers to provide technical assistance throughout the product evaluation and integration process.

Customers

Customers for our products include both large multinational and smaller OEMs. We maintain relationships with OEMs in a diverse range of industries encompassing the military, industrial, medical, and consumer market sectors. During 2010, 66% of our net revenue was to firms based in the United States and 34% was to international firms as compared to 57% domestic revenue and 43% international revenue during 2009. In 2010, we had —10 customers that accounted for more than 57% of our total revenue as compared to 10 customers that accounted for more than 56% of our total revenue in 2009. In 2010 and 2009, we had 1 customer that accounted for more than 10% of our total revenue. Approximately 43% of our 2010 revenue, we estimate, was derived through sales of defense or military related products as compared to 41% in 2009.

Backlog

As of September 30, 2011, we had a backlog of approximately \$11.3 million for purchases through December 2012. This backlog primarily consists of non-binding purchase orders and purchase agreements but does not include expected revenue from R&D contracts or expected NRE (non-recurring engineering) programs under development.

The majority of our backlog consists of non-binding purchase orders or purchase agreements for delivery over the next six months. Most purchase orders are subject to rescheduling or cancellation by the customer with no or limited penalties. We believe that the backlog metric is of limited utility in predicting future sales because many of our OEM customers operate on a ship-to-order basis. Variations in the magnitude and duration of purchase orders and customer delivery requirements may result in substantial fluctuations in backlog from period to period.

Manufacturing Facilities

Our manufacturing facilities are located at IBM's Microelectronics Division facility, known as the Hudson Valley Research Park, located about 70 miles north of New York City in Hopewell Junction, New York. We lease approximately 37,000 square feet of space which houses our own equipment for OLED microdisplay fabrication and research and development, includes a 16,300 square foot class 10 clean room space, additional lower level clean room

space, assembly space and administrative offices.

Facilities services provided by IBM include our clean room, pure gases, high purity de-ionized water, compressed air, chilled water systems, and waste disposal support. This infrastructure provided by our lease with IBM provides us with many of the resources of a larger corporation without the added overhead costs. It further allows us to focus our resources more efficiently on our product development and manufacturing goals.

We also lease a facility in Bellevue, Washington where we house our Z800 3DVisor operations, finance function and business development activities. The facilities are well suited for designing and building limited volume prototypes and small quantities of industrial or government products.

We believe manufacturing efficiency is an important factor for success, especially in the consumer markets. Although, we currently have the equipment needed for profitable production in place, we added \$2.3 million of equipment in 2010 and we plan to add \$4.5 million equipment in 2011 to increase capacity and yield and to meet expected demand for our microdisplays.

Competition

The industry in which we operate is highly competitive. We face competition from legacy technologies such as cathode ray tubes (CRTs), liquid crystal on silicon microdisplays (LCOS), OLED microdisplays and transmissive liquid crystal displays (LCDs) as well as from alternative flat panel display technologies such as field emission and virtual scanning retinal displays. There are many large and small companies that manufacture or have in development products based on these technologies.

Currently, in the high resolution microdisplay market, we face competition from liquid crystal microdisplay manufacturers, such as those sold by Kopin Corporation. A few manufacturers of high resolution OLED microdisplays have emerged which could compete with our microdisplay products. The companies are located in France, Japan and China, which have produced OLED microdisplays.

The companies are Yunnan North OLEiD Opto-Electronic Technology Co., Ltd. in China, MicroOLED in France and Sony in Japan. We believe Sony and OLEiD produce OLED microdisplays in production quantities. OLEiD is selling displays in Asia but mostly within China while Sony is using their OLED production capacity for integration into their higher-level systems such as digital cameras and Head Mounted Displays (HMDs). We are not aware that Sony will sell their OLED microdisplays to OEMs. We do not expect these companies to affect our military business however we anticipate some price erosion with our international and commercial customers.

We may also compete with potential licensees of Universal Display Corporation or Global OLED Technology LLC, among others, each of which potentially can license OLED technology portfolios. If other new OLED-based companies enter our markets with directly relevant display designs and without manufacturing and reliability issues, we will face competition, though we believe that our progress to date in this area gives us a substantial head start.

Sony has developed and released a 3D consumer HMD that utilizes their OLED microdisplays. We do not expect the introduction of this product to significantly affect sales or our Z800. The Z800 has an established OEM base and has more flexible interfaces for ease of integration into the training and simulation market (largest market segment), where the Sony HMD was specifically designed for consumer electronic interfaces.

In the future, we believe that competition will come from LCOS and small transmissive LCDs. While we believe that OLED technology has the capability to provide higher quality images, greater environmental ruggedness, reduced electronics cost and complexity, and improved power efficiency advantages over either type of liquid crystal based microdisplays, there is no assurance that these benefits will be fully realized or that liquid crystal manufacturers will not suitably improve these parameters to reduce these potential advantages of OLEDs.

Intellectual Property

We believe we have developed a substantial intellectual property portfolio of patents, trade secrets and manufacturing know-how. It is important to protect our investment in technology by obtaining and enforcing intellectual property rights, including rights under patent, trademark, trade secret and copyright laws and proprietary technical knowhow. We seek to protect inventions we consider significant by applying for patents in the United States and other countries when appropriate.

Our intellectual property covers a wide range of device structures, processes, and fabrication techniques, primarily concentrated in the following areas:

· OLED Devices, Architecture, Structures, and Processes;

- · Display Color Processing and Sealing;
- · Active Matrix Circuit Methodologies and Designs;
- · Lenses and Tracking (Eye and Head);
- · Ergonomics and Industrial Design;
- · Wearable Computer Interface Methodology; and
- · Field Emission and General Display Technologies.

We believe that, in addition to patent protection, our success is dependent upon non-patentable trade secrets and technical expertise. To protect this information and know-how from unauthorized use or disclosure, we use nondisclosure agreements and other measures to protect our proprietary rights, and we require all employees, and where appropriate, contractors, consultants, advisors and collaborators to enter into confidentiality and non-competition agreements. We believe that our intellectual property portfolio, coupled with our strategic relationships and accumulated manufacturing know-how in OLED, gives us a significant advantage over potential competitors.

Employees

As of November 18, 2011, we had a total of 89 full time and part time staff. None of our employees are represented by a labor union. We have not experienced any work stoppages and consider our relations with our employees to be good.

DESCRIPTION OF PROPERTY

Our corporate offices are located in Bellevue, Washington. Our Washington location includes administrative, finance, operations, research and development and sales and marketing functions and consists of leased space of approximately 5,100 square feet. The lease expires in August 2014. Our manufacturing facility is located in Hopewell Junction, New York, where we lease approximately 37,000 square feet from IBM. The NY facility houses our equipment for OLED microdisplay fabrication, assembly operations, research and development, and administrative functions. The lease expires in May 2014. In addition, we lease 2,400 square feet for design and product development in Santa Clara, California. The lease expires in October 2012. We believe our facilities are adequate for our current and near-term needs.

LEGAL PROCEEDINGS

From time to time, we may become involved in various lawsuits and legal proceedings which arise in the ordinary course of business. However, litigation is subject to inherent uncertainties, and an adverse result in these or other matters may arise from time to time that may harm our business.

MANAGEMENT

The following table sets forth the names of our directors and executive officers as of November 18, 2011:

Name	Age	Position
Paul Campbell	56	Chief Financial Officer, Treasurer
Jerome T. Carollo	59	Sr. V.P. of Sales and Marketing
Dr. Amalkumar Ghosh	57	Sr. V.P. of Research and Development
Olivier Prache	52	Sr. V.P. of Display Operations and
		Product Development
		Chief Executive Officer, President, and
Andrew G. Sculley	60	Director
Susan Taylor	51	Sr. V.P., General Counsel and Secretary
Claude Charles (1)(2*)(3)	74	Director
Paul Cronson (2)	54	Director
Irwin Engelman (1*)	77	Director
Dr. Leslie G. Polgar (3)	68	Director
Brig. General Stephen Seay (U.S. Army Ret'd)	65	Director
(1)(2)(3*)		
Dr. Jill J. Wittels	62	Director, Chair of the Board
(1) Audit Committee		
(2) Governance & Nominating Com	mittee	
(3) Compensation Committee		

^{*} Committee Chair

Paul Campbell became the Company's Chief Financial Officer and Treasurer as of May 8, 2009. Prior to this date, he had served as the Company's Interim Chief Financial Officer since April 15, 2008. He served as Interim Corporate Secretary from September, 2010 to February, 2011. Mr. Campbell is a partner with Tatum, LLC ("Tatum"), an executive services firm, since November 2007. Mr. Campbell served as the Chief Financial Officer of four public companies, including Checkers Drive-In Restaurants, Inc., which until 2006 was traded on the Nasdaq and as Chief Financial Officer of Famous Dave's of America, Inc., which is currently trading on the Nasdaq. Mr. Campbell also served as Chief Financial Officer of Sonus Corporation, a medical device retailer, and from May 2007 through October 2007 he served as Chief Financial Officer of Organic To Go, Inc., an emerging publicly-held food company. From 2001 through April 2007, Mr. Campbell owned and operated Campbell Capital, LLC, a consulting and investment firm in Seattle, Washington providing strategic planning and financing services to small businesses. Mr. Campbell received his MBA from Pepperdine University and his B.A. degree in Business Economics from the University of California at Santa Barbara.

Jerome T. Carollo has served as the Senior Vice President of Business Development since March 15, 2011. He joined eMagin from Intevac Vision Systems where he held the positions of Vice President/General Manager and Vice President of Strategic Planning and Business Development since 2007. He was responsible for developing the domestic and international business strategy for Intevac's digital night vision systems, sensors, and helmet mounted and eyewear displays. From 2006 to 2007, he was the President and CEO of Creative Display Systems, a company he co-founded to provide innovative microdisplay and optical systems for both commercial and military markets, which he then sold to Intevac. Prior to this, Mr. Carollo held positions of increasing responsibility in the optical and display business including positions with Rockwell Collins Optronics and Kaiser Electro-Optics. Mr. Carollo holds a B.S. degree in Physics from the State University of New York and an M.S. in Optics from the University of Rochester's Institute of Optics.

Dr. Amalkumar Ghosh was appointed as Senior Vice President of Research and Development in April 2009, after serving as Vice President of OLED Research and Development at the Company since 2005. He is responsible for new microdisplay technology development, government programs, intellectual property and manufacturing process engineering. Dr. Ghosh has more than twenty five years of industrial research and development experience. From 2002 to 2005 he was employed by Eastman Kodak Company where he focused on OLED display technology. From 1995 to 2002 he was employed by the Company. From 1985 to 1995 he was employed by IBM Corporation where he was involved with semiconductor and LCD display technologies. He has numerous publications and patents to his credit and has been recognized as a leader by the Society for Information Display. He earned a Ph.D. degree in Physics from Massachusetts Institute of Technology in 1985.

Olivier Prache was appointed Senior Vice President, Display Operations and Development in February 2005, after overseeing microdisplay product development by the Company since 1995, when he joined the Company's predecessor, FED Corporation. He was employed by Philips-LCOS from 2002 until 2004, when he rejoined the Company. His current responsibilities encompass managing OLED manufacturing and product development. Prior to joining the Company's predecessor in 1995, he worked for Pixtech in France and OIS Optical Imaging Systems in Troy, Michigan. He received his Diplôme d'Ingénieur from E.N.S.E.R.G., in Grenoble France in 1983. Mr. Prache has published numerous papers and holds several patents related to the design of OLED-on-silicon microdisplays.

Andrew G. Sculley became the Company's Chief Executive Officer and President on June 1, 2008 and was appointed to the Board of Directors on November 2, 2009. Mr. Sculley served as the General Manager of Kodak's OLED systems Business Unit and Vice President of Kodak's Display Business from 2004 to 2008. From 2003 to 2006, he served on the Board of Directors of SK Display, a joint venture between Sanyo and Kodak. From 1996 to 2001 Mr. Sculley served as the Manager of Operations, CFO and member of the Board of Directors of Kodak Japan Ltd., where he managed Distribution, Information Technologies, Legal, Purchasing and Finance. Previously, he held positions in strategic planning and finance in Eastman Kodak Company. Mr. Sculley holds an MBA from Carnegie-Mellon University and an M.S. in physics from Cornell University. He attended Harvard University's International Senior Management Program while an executive at Kodak.

Susan Taylor joined the Company on February 1, 2011 as Senior Vice President, General Counsel and Corporate Secretary. Prior to joining the Company, Ms. Taylor provided legal services as a consultant to companies including Amazon.com, Inc. and Avanade Inc. From September 2008 to February 2009, Ms. Taylor served as Senior Vice President of JP Morgan Chase Bank subsequent to its acquisition of Washington Mutual Bank. Ms. Taylor joined Washington Mutual in 1999, and at the time of the bank's acquisition in 2008 served as Associate General Counsel, Senior Vice President and Corporate Secretary. Prior to that, Ms. Taylor was a partner with Foster Pepper PLLC, a regional law firm based in Seattle. Ms. Taylor holds a B.S. in Human Biology from Stanford University and a J.D. from the University of California, Berkeley.

Claude Charles has served as a director since April of 2000. During 2005 and 2006, Mr. Charles was lead independent non-executive director on the Board of Pacific Internet Inc., Singapore. Mr. Charles has served as President of Azur Capital Limited since 1999. From 1996 to 1998 Mr. Charles was Chairman of Equinox Group Holdings. Prior to 1996, Mr. Charles also served as a director and in senior executive positions at SG Warburg and Co. Ltd., Peregrine Investment Holdings, Trident International Finance Ltd., and Dow Banking Corporation. Mr. Charles holds a B.S. in economics from the Wharton School at the University of Pennsylvania and a M.S. in international finance from Columbia University. Mr. Charles's business and financial knowledge and experience led the Governance and Nominating Committee to the conclusion that he should serve on the Board of Directors, given the Company's business and structure.

Paul Cronson has served as a director since July of 2003. Mr. Cronson is Managing Director of Larkspur Capital Corporation, which he co-founded in 1992. Larkspur is a broker dealer that is a member of FINRA and advises companies seeking private equity or debt. Mr. Cronson's career in finance began in 1979 at Laidlaw, Adams Peck where he worked in asset management and corporate finance. From 1983 to 1985, Mr. Cronson worked with Samuel Montagu Co., Inc. in London, where he marketed eurobond issuers and structured transactions. Subsequently from 1985 to 1987, he was employed by Chase Investment Bank Ltd., where he structured international debt securities and he developed synthetic asset products using derivatives. Returning to the U.S., he joined Peter Sharp Co., where he managed a real estate portfolio, structured financings and assisted with capital market investments until 1992. Mr. Cronson received his BA from Columbia College in 1979, and his MBA from Columbia College in 1982. He is on the Board of the Evelyn Sharp Foundation in New York, a private foundation supporting various not for profit endeavors. Mr. Cronson's business management and financial experience and knowledge led the Governance and Nominating Committee to the conclusion that he should serve on the Board of Directors, given the Company's business and structure.

Irwin Engelman has served as a director since May of 2005 and served as Non-Executive Interim Chairman from November 2010 to August 2011. He is currently a consultant to various industrial companies and is a director of WellGenCorp, a neutrogenic products and technology company and has served on its board for twelve years. Mr. Engelman was a director of Sanford C. Bernstein Mutual Funds, a publicly-traded company, and chairman of its audit committee, from 2000 to 2010. From November 1999 until April 2002, he served as Executive Vice President and Chief Financial Officer of YouthStream Media Networks, Inc., a media and retailing company serving high school and college markets. From 1992 until April 1999, he served as Executive Vice President and Chief Financial Officer of MacAndrews and Forbes Holdings, Inc., a privately-held financial holding company. From November 1998 until April 1999, he also served as Vice Chairman, Chief Administrative Officer and a director of Revlon, Inc., a publicly-traded consumer products company. From 1978 until 1992, he served as an executive officer of various public companies including International Specialty Products, Inc. (a subsidiary of GAF Holdings Inc.), CitiTrust Bancorporation, General Foods Corporation and The Singer Company. Mr. Engelman received a BBA in Accounting from Baruch College in 1955 and a Juris Doctorate from Brooklyn Law School in 1961. He was admitted to practice law in the State of New York in 1962. In addition, he was licensed as a CPA in the State of New Jersey in 1966. Mr. Engelman's experience as a director of public companies, as well as his accounting and financial experience and knowledge, led the Governance and Nominating Committee to the conclusion that Mr. Engelman should serve on the

Board of Directors, given the Company's business and structure.

Dr. Leslie G. Polgar has served as a director since November of 2010. Mr. Polgar has been founder and executive officer of Talpra Consulting, since 1994, where he serves as a consultant to investors and technology companies. From 2005 to 2007 Dr. Polgar was chief executive officer and a member of the board of directors of Forth Dimension Displays Ltd. in Dalgety Bay, Scotland. From 2000 to 2003, Dr. Polgar was the founder and president of Eastman Kodak's Display Products, where he led the successful commercialization of the world's first full color organic light emitting diode display (OLED). Since 2008, Dr. Polgar has taught the capstone Entrepreneurship and Business Development course in the MBA program at St. Mary's College of California. Dr. Polgar has been active as judge or mentor for the UC Berkeley's Haas School of Business since 1999. Dr. Polgar's board experience includes: Shotgun Players Theater Company (non-profit, US) and for-profits Interschola (US), Forth Dimension Displays (UK), SK Display (Japan), Bertram Labs/Chemetall GmbH (US-Germany), and Chemical Suppliers Inc. (US). Dr. Polgar earned an MBA (U. of Connecticut), a PhD and MS in physics (Carnegie Mellon University) and a BS in physics/math (U. of Michigan). Dr. Polgar's scientific and technical knowledge and his experience in the industry led the Governance and Nominating Committee to the conclusion that he should serve on the Board of Directors, given the Company's business and structure.

Brig. General Stephen Seay (U.S. Army, Ret.) has served as a director since January 2006. Brig. General Seay founded Seay Business Solutions, LLC, Florida veteran owned small business, in 2006. Brig. General Seay provides expertise in high technology operational modeling, simulation, education and training, mission command, cyber operations, strategic planning, resource management/allocation, operations research and system life cycle planning, programming, execution, and sustainment. He held a wide variety of command and staff positions during his thirty-three year Army career, culminating as the Commanding General, Joint Contracting Command-Iraq/Head of Contracting Authority, Operation Iraqi Freedom (2004-2005) and Program Executive Officer, Simulation, Training and Instrumentation (PEO STRI) from 2000-2005. He performs corporate and independent director responsibilities as a member of audit, compensation, finance, governance and executive committees. He is an Associate in The Spectrum Group, Alexandria, Virginia and CMA & Associates, Virginia Beach, Virginia. He serves on the Board of Directors and as Treasurer for Kid's House of Seminole County, Florida (children's advocacy), Orlando Science Center, Orlando, Florida (STEM) and on the Board of Advisors, ADS Tactical Corporation, Virginia Beach, Virginia (force provider). Brig. General Seay holds a Bachelor of Science degree from the University of New Hampshire and a Master of Science degree from the North Carolina State University. Brig. General Seay's Army operational experience and understanding of high technology devices, optics and digital displays, his business knowledge and experience in transitioning emerging technology into practical applications led the Governance and Nominating Committee to the conclusion that he should serve on the Board of Directors, given the Company's business and structure.

Dr. Jill J. Wittels has served as a director and Chair of the Board since August, 2011. She served on the Company's Board previously from 2003 to 2006. From 2001 until July, 2011, Dr. Wittels was Corporate Vice President, Business and Technology Strategy of L-3 Communications. Her responsibilities at L-3 included strategies for growth, oversight of R&D, diligence support for M&A, and cross-company business development coordination. From 1979 to 2001 she held a variety of positions with BAE Systems, including Vice President and General Manager, Acting President and Vice President of Engineering. She served on the board of Innovative Micro Technology, Inc. from 2002 through July 2011, and from June 1995 through June 2011 on the Board of the Fermi National Accelerator Laboratory, a laboratory of the U.S. Department of Energy Office of High Energy Physics. She also served on the board of Millivision, Inc. from 2002 to 2006. Dr. Wittels holds a BS and a PhD in Physics, both from the Massachusetts Institute of Technology. Dr. Wittels' business management experience, her scientific knowledge, her knowledge of the Company, and her experience in developing strategy and strategic alliances led the Governance and Nominating Committee to the conclusion that she should serve on the board of directors, given the Company's business and structure.

Directorships

Except as otherwise reported above, none of our directors have held directorships in other reporting companies and registered investment companies at any time during the past five years

Family Relationships

There are no family relationships among our directors and executive officers. There is no arrangement or understanding between or among our executive officers and directors pursuant to which any director or officer was or is to be selected as a director or officer.

Involvement in Certain legal Proceedings

To our knowledge, during the last ten years, none of our directors and executive officers has:

· Had a bankruptcy petition filed by or against any business of which such person was a general partner or executive officer either at the time of the bankruptcy or within two years prior to that

time.

- · Been convicted in a criminal proceeding or been subject to a pending criminal proceeding, excluding traffic violations and other minor offenses.
- Been subject to any order, judgment or decree, not subsequently reversed, suspended or vacated, of any court of competent jurisdiction, permanently or temporarily enjoining, barring, suspending or otherwise limiting his involvement in any type of business, securities or banking activities.
- Been found by a court of competent jurisdiction (in a civil action), the SEC, or the Commodities
 Futures Trading Commission to have violated a federal or state securities or commodities law,
 and the judgment has not been reversed, suspended or vacated.
- Been the subject to, or a party to, any sanction or order, not subsequently reverse, suspended or vacated, of any self-regulatory organization, any registered entity, or any equivalent exchange, association, entity or organization that has disciplinary authority over its members or persons associated with a member.

Compensation of Directors

Non-management directors receive options under the 2003 Stock Option Plan. Under the Plan, a grant of options to purchase 15,000 shares of common stock will automatically be granted on the date a director is first elected or re-elected, or otherwise validly appointed to the Board with an exercise price per share equal to 100% of the market value of one share on the date of grant. Such options granted will expire ten years after the date of grant and will become fully vested at the end of the year granted. The directors who were elected or re-elected at the November 18, 2010 Annual Meeting received a grant of options to purchase 15,000 shares of common stock. For the 2010 calendar year, Directors received an annual cash retainer of \$10,000 and an annual stock retainer of 50,000 options, fully vested, at market price on the date of issuance and the Non-executive Chairman received an additional 50,000 options which vested at the end of the grant year. The 2010 Board meeting fees are as follows: each non-management director received \$1,250 for each in-person meeting and \$750 for a teleconference; and additional per meeting fees to the Audit committee chair of \$500 and the Governance and Nominating and Compensation chairs of \$250 each.

ITEM 11. EXECUTIVE COMPENSATION

Compensation Discussion and Analysis

The objectives of our compensation program are as follows:

- · Reward performance that drives substantial increases in shareholder value, as evidenced through both future operating profits and increased market price of our common shares; and
- · Attract, hire and retain well-qualified executives.

The compensation level of our executives generally reflects their unique position and incentive to positively affect our future operating performance and shareholder value. Part of the compensation of our executives is from equity compensation, primarily through stock option grants. The stock option exercise price is generally the fair market value of the stock on the date of grant. Therefore, a gain is only recognized if the value of the stock increases, which promotes a long term alignment between the interests of the Company's executives and its shareholders. For that reason, stock options are a component of 100% of our employees' salary package.

Specific salary and bonus levels, as well as the amount and timing of equity incentive grants, are determined informally and judgmentally, on an individual-case basis, taking into consideration each executive's unique talents and experience as they relate to our needs, as well as the Company's performance. Executive compensation is paid or granted pursuant to each executive's compensation agreement. Compensation adjustments are made occasionally based on changes in an executive's level of responsibility or on changed local and specific executive employment market conditions.

The Board of Directors has established a Compensation Committee, comprised exclusively of independent outside directors which approves all compensation and awards to executive management. The Compensation Committee includes members with executive level experience in other companies who bring a perspective of reasonableness to compensation matters with our Company. In addition, the Compensation Committee compares executive compensation practices of similar companies at similar stages of development.

Generally on its own initiative, at least annually, the Compensation Committee reviews the performance of executives and establishes compensation levels based on the performance evaluation, historical compensation levels of the executives, levels of responsibility and contributions to the Company, and comparable broad-based position studies provided by independent sources. With respect to equity compensation, the Compensation Committee approves all option grants, generally based on the recommendation of the President and Chief Executive Officer, except that the Chief Executive Officer and Chief Financial Officer have been delegated authority to approve grants to a limited number of options to newly hired employees. Executives are eligible to receive bonus compensation at the discretion of the Compensation Committee, which is primarily based on the achievement of certain goals and objectives and the executive's contributions to the Company. Executives also are entitled to participate in the same benefit plans that are available to other Company employees.

Compensation for the Chairman

For 2010, Mr. Engelman serving as the Non-Executive Interim Chairman of the Board as of November 18, 2010 received a stipend of \$7,000, an annual retainer of \$10,000 for serving as a director, and meetings fees. For 2010, Admiral Paulsen who is no longer serving as the Non-Executive Chairman of the Board as of November 18, 2010 received a stipend of \$53,000, an annual cash retainer of \$10,000 for serving as a director, and meetings fees.

Summary Compensation Table

The following table sets forth information regarding compensation paid to our principal executive officer, principal financial officer, and our highest paid executive officer, all of whose total annual salary and bonus for the years ended December 31, 2010, 2009 and 2008 exceeded \$100,000.

SUMMARY COMPENSATION TABLE

Change in

							Non-equity	y pension value			
							incentive	and			
							plan	non-qualified			
				Stock		Option	compens-	_	All Other		
		Salary	Bonus	Awards		awards	ation		Compensation		Total
Name and	Year	(\$)	(\$)	(\$)		(\$), (a)	(\$)	(\$)	(\$)		(\$)
principal	1 Cai	(Ψ)	(Ψ)	(Ψ)		(Ψ) , (a)	(Ψ)	(Ψ)	(Ψ)		(Ψ)
position											
Andrew G.											
Sculley,	2010	321,231	25 550	_		29,795					376,576
President	2009	317,115	23,330	_		27,173			_		317,115
and Chief	2008	161,923	_	_		287,150					449,073
Executive	2000	101,723				207,130					117,073
Officer (1)											
K.C. Park,	2010	_	_	_		_			_	_	_
Interim	2009	_	_	_		_				_	_
President	2008	105,817	60,000	_	(7)	42,371			75,000	(8)	283,188
and			00,000		(.)	,			,,,,,,,,	(-)	
Chief											
Executive											
Officer (2)											
Paul	2010	283,085	22,516	-		26,256			_		331,857
Campbell,	2009	287,331	-	-		222,326			<u> </u>		509,657
Chief	2008	203,539	-	-		-			_		203,539
Financial											
Officer (3)											
Michael D.	2010	-	-	-		-			-		-
Fowler,	2009	-	-	-		-			_		-
Interim	2008	84,808	-	-		-			_		84,808
Chief											
Financial											
Officer (4)											
John D.	2010	-	-	-		-			-		-
Atherly,	2009	-	-	-		-			_		-
Chief	2008	44,628	-	-		-			-		44,628
Financial											
Officer (5)											
Susan	2010	184,389	-	-		47,613	-	-	776,728	(9)1	,008,730
Jones,	2009	316,212	-	-		-	-	-	238,220	` /	554,432
Executive	2008	329,916	-	-		-	-	-	189,325	(10)	519,241
Vice											

President, Chief Business Officer, and Secretary (6)

- (1) Mr. Sculley has been serving as our President and Chief Executive Officer as of June 1, 2008.
- (2) Dr. Park was appointed Interim President and Chief Executive Officer in January 2007 and resigned his post in January 2008. Prior to January 2007, Dr. Park served as Executive Vice President of International Operations. Dr. Park provided consulting services from February 1, 2008 through August 1, 2008.
- (3) Mr. Campbell has been serving as our Chief Financial Officer as of May 8, 2009. Prior to this date, he had served as our Interim Chief Financial Officer since April 15, 2008.
- (4) Mr. Fowler resigned as Interim Chief Financial Officer as of April 14, 2008.
- (5) Mr. Atherly resigned as Chief Financial Officer in January 2008.
- (6) Ms. Jones resigned as Executive Vice President, Chief Business Officer, and Secretary in May 2010.
- (7) This amount represents options issued pursuant to Mr. Park's consulting agreement.
- (8) This amount represents consulting fees paid pursuant to Mr. Park's consulting agreement.
- (9) This amount represents a severance payment to Ms. Jones of \$473 thousand and earned sales incentive compensation in the amount of \$304 thousand by Ms. Jones.
- (10) This amount represents sales incentive compensation earned by Ms. Jones. Column note:
- (a) The amounts in this column represent the fair value of option awards to the named executive officer as computed on the date of the option grants using the Black-Scholes option-pricing model.

Grants of Plan-Based Awards

The following table sets forth information regarding stock option awards to our named executive officers under our stock option plans for the year ended December 31, 2010 as follows:

		All Other Option	Exercise or	
		Awards: Number of	Base Price	
		Securities	of Options	Total Grant
		Underlying Options	Awards	Date Fair
Name	Grant Date	(#)	(\$/Sh)	Value (\$)
Andrew G. Sculley	March 3, 2010 (1)	25,796	1.94	29,795
Paul Campbell	March 3, 2010 (1)	22,733	1.94	26,256
Susan Jones	March 3, 2010 (1)(2)	25,393	1.94	47,613

- (1) 1/2 of the grant is exercisable immediately and the remaining 1/2 is exercisable on the first anniversary.
- (2) Ms. Jones resigned in May 2010 and all unvested options vested immediately.

Outstanding Equity Awards at Fiscal Year-End

The following table sets forth information with respect to the outstanding equity awards of our principal executive officers and principal financial officer during 2010, and each person who served as an executive officer of eMagin Corporation as of December 31, 2010:

	OUTSTANDING EQUITY AWARDS AT YEAR-END Option awards							Stock awards		
			•						Equity incentive plan awards:	
								Equity	or	
								incentive	payout	
							Market	plan	value	
						Number	value	awards:	of	
						of	of	Number	unearned	
			Equity			shares	shares	of	shares,	
			incentive			or	or	unearned	units	
	Number	Number	plan			units	units	shares	or	
	of	of	awards: Number			of	of	other	other	
	securities	securities	of			stock	stock	rights	rights	
	underlying	underlying	securities			that	that	that	that	
	unexercised	unexercised	underlying	Options		have	have	have	have	
Name and	d options	options	unexercised	exercise	Option	not	not	not	not	
principal	(#)	(#)	options	price	expiration	vested	vested	vested	vested	

position Exercisable (#) (\$) Date (#) (\$) (\$)