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PROSPECTUS

16,015,581 SHARES

EMRISE CORPORATION

COMMON STOCK

This a public offering of 16,015,581 shares of our common stock. All shares are being offered by selling security holders identified in this prospectus. We will not receive any of the proceeds from the sale of shares by the selling security holders. Our common stock is listed and trades on the Archipelago ExchangeSM ("ArcaEx(R)"), a facility of the Pacific Exchange(R), under the symbol "ERI." On October 4, 2005, the closing sale price of our common stock on ArcaEx was \$1.81 per share.

The mailing address and the telephone number of our principal executive offices are 9485 Haven Avenue, Rancho Cucamonga, California 91730, (909) 987-9220.

Investing in our shares of common stock involves risks. See "Risk Factors" beginning on page 8 for factors you should consider before buying shares of our common stock.

THIS PROSPECTUS IS NOT AN OFFER TO SELL THESE SECURITIES, AND WE ARE NOT SOLICITING OFFERS TO BUY THESE SECURITIES, IN ANY STATE WHERE THE OFFER OR SALE IS NOT PERMITTED.

NEITHER THE SECURITIES AND EXCHANGE COMMISSION NOR ANY STATE SECURITIES COMMISSION HAS APPROVED OR DISAPPROVED OF THESE SECURITIES OR DETERMINED IF THIS PROSPECTUS IS ACCURATE OR COMPLETE. ANY REPRESENTATION TO THE CONTRARY IS A CRIMINAL OFFENSE.

THE DATE OF THIS PROSPECTUS IS NOVEMBER 2, 2005.

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PROSPECTUS SUMMARY

TO FULLY UNDERSTAND THIS OFFERING AND ITS CONSEQUENCES TO YOU, YOU SHOULD READ THE FOLLOWING SUMMARY ALONG WITH THE MORE DETAILED INFORMATION AND OUR CONSOLIDATED FINANCIAL STATEMENTS AND THE NOTES TO THOSE STATEMENTS APPEARING ELSEWHERE IN THIS PROSPECTUS. IN THIS PROSPECTUS, THE WORDS "WE," "US," "OUR" AND SIMILAR TERMS REFER TO EMRISE CORPORATION TOGETHER WITH ITS SUBSIDIARIES UNLESS THE CONTEXT PROVIDES OTHERWISE.

EMRISE CORPORATION

We are a Delaware corporation that was formed July 14, 1989. We have three wholly-owned operating subsidiaries, Emrise Electronics Corporation, a New Jersey corporation that was formed in 1983 ("Emrise Electronics"), CXR Larus Corporation, a Delaware corporation that was formed in 1984 ("CXR Larus"), and CXR-Anderson Jacobson, a French company that was formed in 1973 ("CXR-AJ"). Emrise Electronics and its subsidiaries design, develop, manufacture and market electronic components for defense, aerospace and industrial markets. CXR Larus and CXR-AJ design, develop, manufacture and market network access and transmission products and communications test equipment. CXR Larus also manufactures and sells communication timing and synchronization products.

In December 2004, CXR Larus changed its name from CXR Telcom Corporation when it succeeded by merger to the assets and liabilities of Larus Corporation, a San Jose, California-based manufacturer and seller of telecommunications products, and Vista Labs, Incorporated, a subsidiary of Larus Corporation that provided engineering services to Larus Corporation. We acquired Larus Corporation and Vista Labs, Incorporated in July 2004.

In March 2005, XCEL Corporation Ltd., a United Kingdom-based subsidiary of Emrise Electronics ("XCEL"), acquired Pascall Electronic (Holdings) Limited ("PEHL") and its wholly-owned subsidiary, Pascall Electronics Limited ("Pascall"). Pascall is based in the United Kingdom and manufactures a range of proprietary power systems and radio frequency ("RF") components and subsystems.

As of August 31, 2005, Emrise Electronics acquired RO Associates Incorporated ("RO"). RO is based in Sunnyvale, California and designs and manufactures standard and semi-custom DC-DC (direct current-direct current) and AC-DC (alternating current-direct current) converters and other related components for telecommunications, industrial, commercial and quasi-military applications.

Through our operating subsidiaries, Emrise Electronics, CXR Larus and CXR-AJ, and through the divisions and subsidiaries of those subsidiaries, we design, develop, manufacture, assemble, and market products and services in the following two material business segments:

o Electronic Components

- -- digital and rotary switches
- -- electronic power supplies
- -- RF components
- -- subsystem assemblies

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- o Communications Equipment
 - -- network access and transmission products
 - -- communication timing and synchronization products
 - -- communications test instruments

Our sales are primarily in North America, Europe and Asia. Sales to customers in the electronic components segment, primarily to defense and aerospace customers, defense contractors and industrial customers, were 59.2% and 62.3% of our total net sales during the six months ended June 30, 2005 and 2004, respectively, and 51.1%, 63.4% and 59.1% of our total net sales during 2004, 2003 and 2002, respectively. Sales of communications equipment and related services, primarily to private customers and public carrier customers, were 40.8% and 37.7% of our total net sales during the six months ended June 30, 2005 and 2004, respectively, and 48.9%, 36.6% and 40.9% of our total net sales during 2004, 2003 and 2002, respectively.

Our objective in our electronic components business is to become the supplier of choice for harsh environment digital and rotary switches, custom power supplies and RF and microwave products. Our objective in our communications equipment business is to become a leader in quality, cost effective solutions to meet the requirements of communications equipment customers. We believe that we can achieve these objectives through customer-oriented product development, superior product solutions, and excellence in local market service and support.

CORPORATE INFORMATION

Our principal executive offices are located at 9485 Haven Avenue, Suite 100, Rancho Cucamonga, California 91730. Our telephone number is (909) 987-9220. Our Internet address is http://www.emrise.com. Information contained on, or that is accessible through, our websites should not be considered to be part of this prospectus.

THE OFFERING

This prospectus covers the resale by the selling security holders of the shares of common stock described below:

Outstanding shares of common stock 11,563,896 shares

Shares of common stock underlying warrants 4,451,685 shares

Use of proceeds All proceeds of this offering will be received by selling

security holders for their own accounts. See "Use of Proceeds."

ArcaEx trading symbol

Risk factors

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You should read the "Risk Factors" beginning on page 8, as well as other cautionary statements throughout or incorporated by reference in this prospectus, before investing in shares of our common stock.

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SUMMARY CONSOLIDATED HISTORICAL FINANCIAL DATA

The following financial data should be read in conjunction with the consolidated financial statements and the notes to those statements and our "Management's Discussion and Analysis of Financial Condition and Results of Operations" discussions, all of which are incorporated by reference into this prospectus. The consolidated statements of operations and comprehensive income data for the three months June 30, 2005 and 2004 and the consolidated balance sheet data as of June 30, 2005 and 2004 are derived from unaudited financial statements that are incorporated by reference into prospectus and that, in the opinion of our management, reflect all adjustments, consisting only of normal recurring adjustments, necessary to present fairly the financial data for these periods.

The consolidated statements of operations and comprehensive income data for the years ended December 31, 2004, 2003 and 2002 and the consolidated balance sheet data at December 31, 2004 and 2003 are derived from the consolidated audited financial statements incorporated by reference into this prospectus. The historical results that appear below are not necessarily indicative of results to be expected for any future periods.

	SIX MONTHS ENDED JUNE 30,	SIX MONTHS ENDED JUNE 30,	YEAR END
CONSOLIDATED STATEMENTS OF OPERATIONS AND	2005	2004	2004
COMPREHENSIVE INCOME (LOSS) DATA:		(IN THOUSANDS,	EXCEPT PER SHARE
Net sales	\$ 17 , 261	\$ 12 , 624	\$ 29 , 861 \$
Cost of sales	10,186	6 , 978	16,146
Gross profit	7,075	5,646	13,715
Selling, general and administrative expenses	6,278	4,284	10,226
Engineering and product development expenses	1,136	595	1,521
<pre>Income (loss) from operations</pre>	(339)	767	1,968
Total other income (expense)	25	(226)	(439)
Income (loss) from operations before income taxes .	(314)	541	1 , 529
<pre>Income tax (benefit) expense</pre>	15	102	49
Net income (loss)	(329)	439	1,480
Foreign currency translation adjustment	756	64	379

Total comprehensive income (loss) \$ (1,085) \$

Basic earnings (loss) per share	\$	(0.01)	\$ 0.02	\$	0.06	\$
Diluted earnings (loss) per share	\$	(0.01)	\$ 0.02	\$	0.06	\$
Weighted average shares outstanding, basic		37,017	23,481		24,063	
Weighted average shares outstanding, diluted		37,017	23,481		24,839	
	Jī	AT UNE 30,	AT UNE 30,			AT D
CONCOLUDATED DALANCE CHEEF DATA	2005 2004		2004			
CONSOLIDATED BALANCE SHEET DATA:			 	(IN	THOUSANDS)
Cash and cash equivalents	\$	6 , 435	\$ 1,436	\$	1,057	\$
Working capital		13,909	5,890		5 , 540	
Total assets		40,666	16,490		25 , 086	
Long-term debt, net of current portion		322	853		985	
Stockholders' equity		26,632	8,292		10,909	
Convertible redeemable preferred stock						

No cash dividends on our common stock were declared during any of the periods presented above. Various factors materially affect the comparability of the information presented in the above table. These factors relate primarily to the acquisition of Larus Corporation in July 2004, the acquisition of Pascall in

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March 2005, changes in foreign currency conversion rates and new accounting pronouncements that may affect the consistency in the generally accepted accounting principles that we use. The year ended December 31, 2004 includes five months of Larus Corporation activity. The six months ended June 30, 2005 includes approximately three and one-half months of Pascall activity. We acquired RO subsequent to June 30, 2005.

SUMMARY UNAUDITED CONDENSED CONSOLIDATED PRO FORMA FINANCIAL DATA

The following tables present a summary of our unaudited condensed consolidated pro forma financial data for the six months ended June 30, 2005 and the year ended December 31, 2004. You should read this financial data together with our "Management's Discussion and Analysis of Financial Condition and Results of Operations" discussions and our historical audited and unaudited consolidated financial statements and the related notes thereto and the historical audited financial statements of PEHL and subsidiary and RO incorporated by reference into this prospectus. The unaudited condensed consolidated statements of operations data for the periods ended June 30, 2005 and December 31, 2004 give effect to our acquisition of PEHL and Pascall and our acquisition of RO as if the acquisitions had been consummated on January 1, 2004. We previously acquired, effective as of July 13, 2004, all of the issued and outstanding common stock of Larus Corporation. The unaudited condensed consolidated statements of operations data for the year ended December 31, 2004 also give effect to the acquisition of Larus Corporation and Larus Corporation's subsidiary as if that acquisition had been consummated on January 1, 2004.

The summary unaudited condensed consolidated pro forma financial data are presented for illustrative purposes only and do not represent what our results

1,859

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of operations actually would have been if the transactions referred to above had occurred as of the dates indicated or what our results of operations will be for future periods. The presented information does not include certain cost savings and operational synergies that we expect to achieve upon fully consolidating our acquisitions.

	SIX MONTHS ENDED JUNE 30, 2005				AR ENDED BER 31, 2			
			PRO EMI ACQ	O FORMA RISE AND UISITIONS	E		E	RO F
CONDENSED CONSOLIDATED STATEMENTS OF OPERATIONS DATA:				HOUSANDS,		T PER S	 HARE	AMOU
Net sales	\$	17,261				29,861		5 5
Cost of sales		10,186		13 , 683		16,146		3
Gross profit		7 , 075		9,533		13,715		2
Selling, general and administrative expenses		6 , 278		8,015		10,226		1
Engineering and product development expenses		1,136		1,749		1,521		
<pre>Income (loss) from operations</pre>		(339)		(231)		1,968		
Total interest and other income (expense)		25		(133)		(439)	
Income (loss) before income taxes		(314)		(252)		1,529		
<pre>Income tax (benefit) expense</pre>		15		15		49		
Net income (loss)	\$	(329)	\$	(267)	\$	1,480	Ş	;
Earnings (loss) per share, basic	\$	(0.01)	\$	(0.01)	\$	0.06	Ş	;
Earnings (loss) per share, diluted	\$	(0.01)	\$	(0.01)	\$	0.06	Ş	;
Shares outstanding, basic		37 , 017		37,017		24,063		2
Shares outstanding, diluted		37,017		37,017		24,839		2

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	SIX MONTHS ENDED JUNE 30, 2005				YEAR END DECEMBER 31			
	EMRIS	E	PRO FO EMRISE ACQUISI		 	EMRISE	E	PRO FO EMRISE CQUISI
INCOME (LOSS) PER SHARE:	(IN TH	HOUSANDS,	, EXCEPT	PER	R SHARE	AMOUI	NTS)
Numerator: Net income (loss) attributable to common								
stockholders Denominator:	\$ (329)	\$	(267)	\$	1,480	0 \$	2,
Weighted average number of common shares outstanding during the period, basic	•			5,803		23,418		23,
Common shares issued to acquire Larus Adjusted weighted average shares Incremental shares from assumed	•		1 37	1,214 7,017		645 24 , 063		1, 24,
conversations of warrants, options and								

preferred stock			776	
Adjusted weighted average shares	37 , 017	37,017	24,839	25,
Income (loss) per share, basic	\$ (0.01)	\$ (0.01)	\$ 0.06	\$ 0
<pre>Income (loss) per share, basic</pre>	\$ (0.01)	\$ (0.01)	\$ 0.06	\$ 0

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RISK FACTORS

THE FOLLOWING SUMMARIZES MATERIAL RISKS THAT YOU SHOULD CAREFULLY CONSIDER BEFORE YOU DECIDE TO BUY OUR COMMON STOCK IN THIS OFFERING. ANY OF THE FOLLOWING RISKS, IF THEY ACTUALLY OCCUR, WOULD LIKELY HARM OUR BUSINESS, FINANCIAL CONDITION AND RESULTS OF OPERATIONS. AS A RESULT, THE TRADING PRICE OF OUR COMMON STOCK COULD DECLINE, AND YOU COULD LOSE THE MONEY YOU PAID TO BUY OUR COMMON STOCK.

RISKS RELATED TO OUR BUSINESS

OUR LACK OF LONG-TERM PURCHASE ORDERS OR COMMITMENTS MAY ADVERSELY AFFECT OUR BUSINESS IF DEMAND IS REDUCED.

During 2004 and the six months ended June 30, 2005, the sale of electronic components accounted for 51.1% and 59.2%, respectively, of our total net sales, and the sale of communications equipment and related services accounted for 48.9% and 40.8%, respectively, of our total net sales. In many cases we have long-term contracts with our electronic components and communications equipment customers that cover the general terms and conditions of our relationships with them but that do not include long-term purchase orders or commitments. Rather, our customers issue purchase orders requesting the quantities of communications equipment they desire to purchase from us, and if we are able and willing to fill those orders, then we fill them under the terms of the contracts. Accordingly, we cannot rely on long-term purchase orders or commitments to protect us from the negative financial effects of reduced demand for our products that could result from a general economic downturn, from changes in the electronic components and communications equipment industries, including the entry of new competitors into the market, from the introduction by others of new or improved technology, from an unanticipated shift in the needs of our customers, or from other causes.

MANY OF OUR COMPETITORS HAVE GREATER RESOURCES THAN US. IN ORDER TO COMPETE SUCCESSFULLY, WE MUST KEEP PACE WITH OUR COMPETITORS IN ANTICIPATING AND RESPONDING TO THE RAPID CHANGES INVOLVING THE ELECTRONIC COMPONENTS AND COMMUNICATIONS EQUIPMENT INDUSTRIES.

Our future success will depend upon our ability to enhance our current products and services and to develop and introduce new products and services that keep pace with technological developments, respond to the growth in the electronic components and communications equipment markets in which we compete, encompass evolving customer requirements, provide a broad range of products and achieve market acceptance of our products. Many of our existing and potential competitors have larger technical staffs, more established and larger marketing and sales organizations and significantly greater financial resources than we do. Our lack of resources relative to our competitors may cause us to fail to anticipate or respond adequately to technological developments and customer requirements or to experience significant delays in developing or introducing new products and services. These failures or delays could reduce our competitiveness, revenues, profit margins or market share.

WE RELY HEAVILY ON OUR MANAGEMENT, AND THE LOSS OF THEIR SERVICES COULD ADVERSELY AFFECT OUR BUSINESS.

Our success is highly dependent upon the continued services of key members of our management, including Carmine T. Oliva, our Chairman of the Board, President and Chief Executive Officer, Graham Jefferies, our Executive Vice President and Chief Operating Officer, and Randolph Foote, our Senior Vice President, Chief Financial Officer and Secretary. Mr. Oliva co-founded Emrise Electronics and has developed personal contacts and other skills that we rely upon in connection with our financing, acquisition and general business strategies. Mr. Jefferies is a long-time employee of Emrise who we have relied

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upon in connection with our United Kingdom acquisitions and who fulfills significant operational responsibilities in connection with our foreign and domestic operations. We rely upon Mr. Foote's skills in financial reporting, accounting and tax matters in addition to his skills in the analysis of potential acquisitions and general corporate administration. Consequently, the loss of Mr. Oliva, Mr. Jefferies, Mr. Foote or one or more other key members of management could adversely affect us. Although we have entered into employment agreements with each of our executive officers, those agreements are of limited duration and are subject to early termination by the officers under some circumstances. We maintain key-man life insurance on Mr. Oliva and Mr. Jefferies. However, we cannot assure you that we will be able to maintain this insurance in effect or that the coverage will be sufficient to compensate us for the loss of the services of Mr. Oliva or Mr. Jefferies.

IF WE ARE UNABLE TO SUCCESSFULLY IDENTIFY OR MAKE STRATEGIC ACQUISITIONS, OUR LONG-TERM COMPETITIVE POSITIONING MAY SUFFER.

Our business strategy includes growth through acquisitions that we believe will improve our competitive capabilities or provide additional market penetration or business opportunities in areas that are consistent with our business plan. Identifying and pursuing strategic acquisitions and integrating acquired products and businesses requires a significant amount of management time and skill. Acquisitions may also require us to expend a substantial amount of cash or other resources, not only as a result of the direct expenses involved in the acquisition transaction, but also as a result of ongoing research and development activities that may be required to maintain or enhance the long-term competitiveness of acquired products, particularly those products marketed to the rapidly evolving telecommunications industry. If we are unable to make strategic acquisitions due to our inability to identify appropriate targets, or to manage the difficulties or costs involved in the acquisitions, our long-term competitive positioning may suffer.

IF WE ARE UNABLE TO FULFILL BACKLOG ORDERS DUE TO CIRCUMSTANCES INVOLVING US OR ONE OR MORE OF OUR SUPPLIERS OR CUSTOMERS, OUR ANTICIPATED RESULTS OF OPERATIONS WILL SUFFER.

As of June 30, 2005, we had \$16,673,000 in backlog orders for our products. Backlog orders represent revenue that we anticipate recognizing in the future, as evidenced by purchase orders and other purchase commitments received from customers, but on which work has not yet been initiated or with respect to which work is currently in progress. Our backlog orders are due in large part to the long lead-times associated with our electronic components products, which products generally are custom built to order. We cannot assure you that we will be successful in fulfilling orders and commitments in a timely manner or that we

will ultimately recognize as revenue the amounts reflected as backlog. Factors that could affect our ability to fulfill backlog orders include difficulty we may experience in obtaining components from suppliers, whether due to obsolescence, production difficulties on the part of suppliers or other causes, or customer—induced delays and product holds. Our anticipated results of operations will suffer to the extent we are unable to fulfill backlog orders within the timeframes we establish, particularly if delays in fulfilling backlog orders cause our customers to reduce or cancel their orders.

IF OUR PRODUCTS FAIL TO COMPLY WITH EVOLVING GOVERNMENT AND INDUSTRY STANDARDS AND REGULATIONS, WE MAY HAVE DIFFICULTY SELLING OUR PRODUCTS.

We design our products to comply with a significant number of industry standards and regulations, some of which are evolving as new technologies are deployed. In the United States, our communications equipment products must comply with various regulations defined by the United States Federal Communications Commission, or FCC, and Underwriters Laboratories as well as industry standards established by Telcordia Technologies, Inc., formerly

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Bellcore, and the American National Standards Institute. Internationally, our communications equipment products must comply with standards established by the European Committee for Electrotechnical Standardization, the European Committee for Standardization, the European Telecommunications Standards Institute, telecommunications authorities in various countries as well as with recommendations of the International Telecommunications Union. The failure of our products to comply, or delays in compliance, with the various existing and evolving standards could negatively affect our ability to sell our products.

OUR BUSINESS COULD SUFFER IF WE ARE UNABLE TO OBTAIN COMPONENTS OF OUR PRODUCTS FROM OUTSIDE SUPPLIERS.

The major components of our products include circuit boards, microprocessors, chipsets and memory components. Most of these components are available from multiple sources. However, we currently obtain some components used in our products from single or limited sources. Some modem chipsets used in our data communications equipment products have been in short supply and are frequently on allocation by semiconductor manufacturers. We have, from time to time, experienced difficulty in obtaining some components. We do not have guaranteed supply arrangements with any of our suppliers, and there can be no assurance that our suppliers will continue to meet our requirements. Further, disruption in transportation services as a result of enhanced security measures in response to terrorism threats or attacks may cause some increases in costs and timing for both our receipt of components and shipment of products to our customers. If our existing suppliers are unable to meet our requirements, we could be required to alter product designs to use alternative components or, if alterations are not feasible, we could be required to eliminate products from our product line.

Shortages of components could not only limit our product line and production capacity but also could result in higher costs due to the higher costs of components in short supply or the need to use higher cost substitute components. Significant increases in the prices of components could adversely affect our results of operations because our products compete on price and, therefore, we may not be able to adjust product pricing to reflect the increases in component costs. Also, an extended interruption in the supply of components or a reduction in their quality or reliability would adversely affect our

financial condition and results of operations by impairing our ability to timely deliver quality products to our customers. Delays in deliveries due to shortages of components or other factors may result in cancellation by our customers of all or part of their orders. Although customers who purchase from us products, such as many of our digital switches and all of our custom power supplies, that are not readily available from other sources would be less likely than other customers of ours to cancel their orders due to production delays, we cannot assure you that cancellations would not occur.

FINANCIAL STATEMENTS OF OUR FOREIGN SUBSIDIARIES ARE PREPARED USING THE RELEVANT FOREIGN CURRENCY THAT MUST BE CONVERTED INTO UNITED STATES DOLLARS FOR INCLUSION IN OUR CONSOLIDATED FINANCIAL STATEMENTS. AS A RESULT, EXCHANGE RATE FLUCTUATIONS MAY ADVERSELY AFFECT OUR REPORTED RESULTS OF OPERATIONS.

We have established and acquired international subsidiaries that prepare their balance sheets in the relevant foreign currency. In order to be included in our consolidated financial statements, these balance sheets are converted, at the then current exchange rate, into United States dollars, and the statements of operations are converted using weighted average exchange rates for the applicable period. Accordingly, fluctuations of the foreign currencies relative to the United States dollar could affect our consolidated financial statements. Our exposure to fluctuations in currency exchange rates has increased as a result of the growth of our international subsidiaries. Sales of our products and services to customers located outside of the United States accounted for approximately 57.3% and 61.2% of our net sales for 2004 and the six months ended June 30, 2005. We use derivatives to manage foreign currency rate risk. Our ultimate realized gain or loss with respect to currency fluctuations will depend on the currency exchange rates and other factors in effect as the contracts mature. Net foreign exchange transaction losses included in other income and expense in our consolidated statements of operations totaled \$36,000 for the six months ended June 30, 2005. There was no hedging in the year ended December 31, 2004.

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BECAUSE WE BELIEVE THAT PROPRIETARY RIGHTS ARE MATERIAL TO OUR SUCCESS, MISAPPROPRIATION OF THESE RIGHTS COULD ADVERSELY AFFECT OUR FINANCIAL

Our future success will be highly dependent on proprietary technology, particularly in our communications equipment business. However, we do not hold any patents and we currently rely on a combination of contractual rights, copyrights, trademarks and trade secrets to protect our proprietary rights. Our management believes that because of the rapid pace of technological change in the industries in which we operate, the legal intellectual property protection for our products is a less significant factor in our success than the knowledge, abilities and experience of our employees, the frequency of our product enhancements, the effectiveness of our marketing activities and the timeliness and quality of our support services. Consequently, we rely to a great extent on trade secret protection for much of our technology. However, there can be no assurance that our means of protecting our proprietary rights will be adequate or that our competitors or customers will not independently develop comparable or superior technologies or obtain unauthorized access to our proprietary technology. Our financial condition would be adversely affected if we were to lose our competitive position due to our inability to adequately protect our proprietary rights as our technology evolves.

RISKS RELATED TO THIS OFFERING

OUR COMMON STOCK PRICE HAS BEEN VOLATILE, WHICH COULD RESULT IN SUBSTANTIAL LOSSES FOR INVESTORS PURCHASING SHARES OF OUR COMMON STOCK AND IN LITIGATION AGAINST US.

The market prices of securities of technology-based companies currently are highly volatile. The market price of our common stock has fluctuated significantly in the past. In fact, during 2004, the high and low closing sale prices of a share of our common stock were \$1.68 and \$0.52, respectively. Between January 1, 2005 and October 4, 2005, the high and low closing sale prices of a share of our common stock were \$1.98 and \$0.93, respectively. The market price of our common stock may continue to fluctuate in response to the following factors, many of which are beyond our control:

- o changes in market valuations of similar companies and stock market price and volume fluctuations generally;
- o economic conditions specific to the electronic components or communications equipment industries;
- o announcements by us or our competitors of new or enhanced products, technologies or services or significant contracts, acquisitions, strategic relationships, joint ventures or capital commitments;
- o delays in our introduction of new products or technological innovations or problems in the functioning of these new products or innovations;
- o third parties' infringement of our intellectual property rights;
- o changes in our pricing policies or the pricing policies of our competitors;
- o foreign currency translations gains or losses;

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- o regulatory developments;
- o fluctuations in our quarterly or annual operating results;
- o additions or departures of key personnel; and
- o future sales of our common stock or other securities.

The price at which you purchase shares of common stock may not be indicative of the price of our stock that will prevail in the trading market. You may be unable to sell your shares of common stock at or above your purchase price, which may result in substantial losses to you. Moreover, in the past, securities class action litigation has often been brought against a company following periods of volatility in the market price of its securities. We may in the future be the target of similar litigation. Securities litigation could result in substantial costs and divert management's attention and resources.

THE UNPREDICTABILITY OF OUR QUARTERLY OPERATING RESULTS MAY CAUSE THE PRICE OF OUR COMMON STOCK TO FLUCTUATE OR DECLINE.

Our quarterly operating results have varied significantly in the past and will likely continue to do so in the future due to a variety of factors, many of

which are beyond our control. Fluctuations in our operating results may result from a variety of factors. Our operating results from our communications segment tend to be less stable and predictable than our operating results from our electronic components segment.

For example, the general decline in telecommunications market activity and other changes affecting the telecommunications industry, including consolidations and restructuring of United States and foreign telephone companies, cause our sales to decrease or increase. Our sales may increase if we obtain new customers as a result of the consolidations or restructurings. However, our sales may decrease, either temporarily or permanently to the extent our customers are acquired by or combined with companies that are and choose to remain customers of our competitors.

In addition, the cyclical nature of the telecommunications business due to the budgetary cycle of Regional Bell Operating Companies, or RBOCs, has had and will continue to have for the foreseeable future an effect on our quarterly operating results. RBOCs generally obtain approval for their annual budgets during the first quarter of each calendar year. If an RBOC's annual budget is not approved early in the calendar year or is insufficient to cover its desired purchases for the entire calendar year, we are unable to sell products to the RBOC during the period of the delay or shortfall.

Quarter to quarter fluctuations may also result from the uneven pace of technological innovation, the development of products responding to these technological innovations by us and our competitors, our customers' acceptance of these products and innovations, the varied degree of price, product and technological competition and our customers' and competitors' responses to these changes.

Due to these factors and other factors, including changes in general economic conditions, we believe that period-to-period comparisons of our operating results will not necessarily be meaningful in predicting future performance. If our operating results do not meet the expectations of investors, our stock price may fluctuate or decline.

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FUTURE SALES OF SHARES OF OUR COMMON STOCK BY OUR STOCKHOLDERS COULD CAUSE OUR STOCK PRICE TO DECLINE.

We cannot predict the effect, if any, that market sales of shares of our common stock or the availability of shares of common stock for sale will have on the market price prevailing from time to time. As of October 4, 2005, we had outstanding 37,497,750 shares of common stock. An aggregate of 11,563,896 of these shares were included for resale under this prospectus. As of October 4, 2005, we also had outstanding options and warrants to purchase up to 5,942,683 shares of common stock. Of these, 4,451,685 shares of common stock underlying warrants were included for resale under this prospectus and 1,490,998 shares underlying options were covered on existing registration statements. Sales of shares of our common stock in the public market after the registration statement of which this prospectus is a part is declared effective, or the perception that those sales may occur, could cause the trading price of our common stock to decrease or to be lower than it might be in the absence of those shares or perceptions.

SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS

This prospectus contains forward-looking statements, including statements concerning future conditions in the electronic components and communications equipment industries, and concerning our future business, financial condition, operating strategies, and operational and legal risks. We use words like "believe," "expect," "may," "will," "could," "seek," "estimate," "continue," "anticipate," "intend," "goal," "future," "plan" or variations of those terms and other similar expressions, including their use in the negative, to identify forward-looking statements. You should not place undue reliance on these forward-looking statements, which speak only as to our expectations as of the date of this prospectus. These forward-looking statements are subject to a number of risks and uncertainties, including those identified under "Risk Factors" and elsewhere in this prospectus. Although we believe that the expectations reflected in these forward-looking statements are reasonable, actual conditions in the electronic components and communications equipment industries, and actual conditions and results in our business, could differ materially from those expressed in these forward-looking statements. In addition, none of the events anticipated in the forward-looking statements may actually occur. Any of these different outcomes could cause the price of our common stock to decline substantially. Except as required by law, we undertake no duty to update any forward-looking statement after the date of this prospectus, either to conform any statement to reflect actual results or to reflect the occurrence of unanticipated events.

USE OF PROCEEDS

We will not receive any of the proceeds from the sale of shares of our common stock in this offering. Rather, all proceeds will be received by selling security holders.

DIVIDEND POLICY

We have not declared or paid any cash dividends on our capital stock in the past, and we do not anticipate declaring or paying cash dividends on our common stock in the foreseeable future. In addition, our credit facility with Wells Fargo Bank, N.A., described in "Management's Discussion and Analysis of Financial Condition and Results of Operations -- Liquidity and Capital Resources," restricts the payment of dividends without the bank's consent.

We will pay dividends on our common stock only if and when declared by our board of directors. Our board of directors' ability to declare a dividend is subject to restrictions imposed by Delaware law. In determining whether to declare dividends, the board of directors will consider these restrictions as well as our financial condition, results of operations, working capital requirements, future prospects and other factors it considers relevant.

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SELLING SECURITY HOLDERS

SELLING SECURITY HOLDER TABLE

This prospectus covers the offer and sale by the selling security holders of up to an aggregate of 16,015,581 shares of common stock, including an aggregate of 11,563,896 issued and outstanding shares of our common stock and an aggregate of 4,451,685 shares of our common stock underlying warrants. The following table sets forth, to our knowledge, certain information about the selling security holders as of October 4, 2005, the date of the table, based on information furnished to us by the selling security holders. Except as indicated

in the private placement descriptions or footnotes following the table, each selling security holder has indicated to us that it is acting individually, not as a member of a group, and none of the selling security holders or their affiliates has held any position or office or had any other material relationship with us in the past three years.

Beneficial ownership is determined in accordance with the rules of the Commission, and includes voting or investment power with respect to the securities. To our knowledge, except as indicated by footnote, and subject to community property laws where applicable, the persons named in the table below have sole voting and investment power with respect to all shares of common stock shown as beneficially owned by them. Shares of common stock underlying derivative securities, if any, that currently are exercisable or convertible or are scheduled to become exercisable or convertible for or into shares of common stock within 60 days after the date of the table are deemed to be outstanding in calculating the percentage ownership of each listed person or group but are not deemed to be outstanding as to any other person or group. Percentage of beneficial ownership is based on 37,497,750 shares of common stock outstanding as of the date of the table. Shares shown as beneficially owned after the offering assume that all shares being offered are sold.

The shares of common stock being offered under this prospectus may be offered for sale from time to time during the period the registration statement of which this prospectus is a part remains effective, by or for the accounts of the selling security holders described below. Roth Capital Partners, LLC ("Roth Capital") is an NASD-registered broker-dealer that received warrants as compensation for services rendered as placement agent in the January 2005 private placement described below. Roth Capital has represented to us that it is not acting as an underwriter in this offering, it received the warrants whose underlying shares are offered under this prospectus in the ordinary course of business, and at the time of such receipt, it had no agreements or understandings, directly or indirectly, with any person to distribute the warrants or underlying shares.

	COM BENEFI	ARES OF MON STOCK CIALLY OWNED TO OFFERING	SHARES OF	SHARE COMMON BENEFICIA AFTER C
NAME OF			COMMON STOCK	
BENEFICIAL OWNER	NUMBER	PERCENTAGE	BEING OFFERED	NUMBER
JLF Offshore Fund, Ltd	1,731,933 (1)	4.57%	1,674,618 (1)	57 , 315
JLF Partners I, LP	1,179,580 (2)	3.12%	1,086,701 (2)	92 , 879
JLF Partners II, LP	89,116 (3)	*	82,813 (3)	6 , 303
The Pinnacle Fund, L.P	4,363,960 (4)	11.45%	3,125,000 (4)	1,238,960
Bonanza Master Fund Ltd	1,312,500 (5)	3.47%	1,312,500 (5)	
Roaring Fork Capital SBIC,				
L.P	1,706,250 (6)	4.51%	1,706,250 (6)	

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SHARES OF

SHARES OF	
COMMON STOCK	
BENEFICIALLY OWNED	
PRIOR TO OFFERING	

SHARE COMMON BENEFICIA AFTER C

NAME OF			COMMON STOCK	
BENEFICIAL OWNER	NUMBER	PERCENTAGE	BEING OFFERED	NUMBER
Lagunitas Partners LP Gruber & McBaine	1,125,000 (7)	2.98%	1,125,000 (7)	
International	250,000 (8)	*	250,000 (8)	
Gruber JTWROS	1,581,250 (9)	4.18%	206,250 (10)	
J. Patterson McBaine	1,481,250 (11)	3.92%	106,250 (12)	
MicroCapital Fund LP	1,080,000 (13)	2.86%	1,080,000 (13)	
MicroCapital Fund Ltd	607,500 (14)	1.61%	607,500 (14)	
Omicron Master Trust	217,125 (15)	*	217,125 (15)	
Stratford Partners, L.P	431,250 (16)	1.15%	431,250 (16)	
Select Contrarian Value				
Partners, L.P	265,630 (17)	*	265,630 (17)	
Precept Capital Master				
Fund, G.P	56,250 (18)	*	56,250 (18)	
Roth Capital Partners, LLC	650,310 (19)	1.70%	650,310 (19)	
Noel C. McDermott, Trustee of the Noel C. McDermott Revocable Living Trust				
dated December 18, 1995	764,211 (20)	2.03%	764,211 (20)	
Warren P. Yost and Gail A.				
Yost, Co-Trustees Under				
Declaration of Trust				
dated March 9, 1988	599,381 (21)	1.60%	599,381 (21)	
Hayden Communications, Inc	125,000 (22)	*	125,000 (22)	
George Farndell	314,748 (23)	*	150,000 (23)	164,748
Steven Jacobus	50,000 (24)	*	50,000 (24)	
Jacques Moisset	78,042 (25)	*	78,042 (25)	
Jason Oliva	401,708 (26)	1.07%	200,500 (26)	201,208
Joseph Mirabella	50,000 (27)	*	50,000	
Placido Albanese	15,000 (28)	*	15,000	

^{*} Less than 1.00%

- (1) Includes 413,675 shares underlying warrants. Power to vote or dispose of the shares is held by Jeffrey L. Feinberg, as managing member of JLF Asset Management, LLC. JLF Asset Management, LLC is investment manager of JLF Offshore Fund, Ltd. and of JLF Partners I, LP and JLF Partners II, LP, two other selling security holders. The address for Mr. Feinberg is c/o JLF Asset Management, LLC, 2775 Via de la Valle, Suite 204, Del Mar, CA 92014.
- (2) Includes 265,925 shares underlying warrants. Power to vote or dispose of the shares is held by Jeffrey L. Feinberg, as managing member of JLF Asset Management, LLC. See footnote (1) above for information regarding JLF Asset Management, LLC.
- (3) Includes 20,400 shares underlying warrants. Power to vote or dispose of the shares is held by Jeffrey L. Feinberg, as managing member of JLF Asset Management, LLC. See footnote (1) above for information regarding JLF Asset Management, LLC.
- (4) Includes 11,599 shares underlying a warrant. Also includes 613,401 additional shares underlying the warrant, which shares exceed the contractual 9.999% beneficial ownership limitation that applied as of the date of the table and therefore are not considered by The Pinnacle Fund, L.P. to be beneficially owned by it as of the date of the table. Power to vote or dispose of the shares is held by Barry M. Kitt, as sole member of Pinnacle Fund Management, LLC, which entity is the general partner of Pinnacle Advisers, L.P., which entity is the general partner of The Pinnacle Fund, L.P. The address for Mr. Kitt is c/o The Pinnacle Fund,

L.P., 4965 Preston Park, Blvd., Suite 240, Plano, TX 75093.

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- (5) Includes 350,000 shares underlying a warrant. Power to vote or dispose of the shares is held by Bernay Box, as president of Bernay Box & Co., which entity is the general partner of Bonanza Master Fund Ltd.
- (6) Includes 341,250 shares underlying a warrant. Sole power to vote or dispose of the shares is held by Eugene McColley as manager of Roaring Fork Management, LLC, which entity is the general partner of Roaring Fork Capital SBIC, L.P.
- (7) Includes 225,000 shares underlying a warrant. Power to vote or dispose of the shares is held by Jon D. Gruber and J. Patterson McBaine, as managers of Gruber & McBaine Capital Management, which entity is the general partner of Lagunitas Partners LP.
- (8) Includes 50,000 shares underlying a warrant. Power to vote or dispose of the shares is held by Jon D. Gruber and J. Patterson McBaine, as managers of Gruber & McBaine Capital Management, which entity is the investment advisor to Gruber & McBaine International.
- (9) Includes 165,000 outstanding shares and 41,250 shares underlying a warrant held by Jon D. Gruber and Linda W. Gruber JTWROS. Also includes aggregates of 1,100,000 outstanding shares and 275,000 shares underlying warrants held by Lagunitas Partners, LP and Gruber & McBaine International, two other selling security holders.
- (10) Represents 165,000 outstanding shares and 41,250 shares underlying a warrant held by Jon D. Gruber and Linda W. Gruber JTWROS.
- (11) Includes 85,000 outstanding shares and 21,250 shares underlying a warrant held by Mr. McBaine. Also includes aggregates of 1,100,000 outstanding shares and 275,000 shares underlying warrants held by Lagunitas Partners, LP and Gruber & McBaine International, two other selling security holders.
- (12) Represents 85,000 outstanding shares and 21,250 shares underlying a warrant held by Mr. McBaine.
- (13) Includes 216,000 shares underlying a warrant. MicroCapital LLC is the general partner and investment advisor to MicroCapital Fund LP and MicroCapital Fund Ltd. Ian P. Ellis is the principal owner of MicroCapital LLC and has sole responsibility for the selection, acquisition and disposition of the portfolio securities by MicroCapital LLC on behalf of its funds.
- (14) Includes 121,500 shares underlying a warrant. MicroCapital LLC is the general partner and investment advisor to MicroCapital Fund LP and MicroCapital Fund Ltd. Ian P. Ellis is the principal owner of MicroCapital LLC and has sole responsibility for the selection, acquisition and disposition of the portfolio securities by MicroCapital LLC on behalf of its funds.
- (15) Represents shares underlying a warrant. Omicron Capital, L.P., a Delaware limited partnership (Omicron Capital), serves as investment manager to Omicron Master Trust, a trust formed under the laws of Bermuda (Omicron). Bruce Bernstein is the managing member of Omicron Capital. Omicron Capital, Inc., a Delaware corporation (OCI), serves as general partner of Omicron Capital, and Winchester Global Trust Company Limited (Winchester) serves as the trustee of Omicron. By reason of such relationships, Omicron Capital and OCI may be deemed to share dispositive power over the shares of our common stock owned by Omicron, and Winchester may be deemed to share voting and dispositive power over the shares of our common stock owned by Omicron. Omicron Capital, OCI and Winchester disclaim beneficial ownership of such shares of our common stock. No other person has sole or shared voting or dispositive power with respect to the shares of our common stock being offered by Omicron, as those terms are used for purposes of Regulation

- 13D-G under the Exchange Act. Omicron and Winchester are not "affiliates" of one another, as that term is used for purposes of the Exchange Act, or of any other person named in this prospectus as a selling security holder. No person or "group" (as that term is used in Section 13(d) of the Exchange Act or Regulation 13D-G) controls Omicron and Winchester.
- (16) Includes 86,250 shares underlying a warrant. Power to vote or dispose of the shares is shared by Mark Fain and Chad Comiteau, as managing directors of Stratford Advisors LLC, which entity is the general partner of Stratford Partners, L.P.
- (17) Includes 75,000 shares underlying a warrant. Power to vote or dispose of the shares is held by David W. Berry as principal of Kaizen Capital, LLC, which entity is the general partner of Select Contrarian Value Partners, I.P.
- (18) Represents shares underlying a warrant. Power to vote or dispose of the shares is held by D. Blair Baker, as president of Precept Management, LLC, which entity is the general partner of Precept Capital Management, L.P., which entity is the agent of Precept Capital Master Fund, G.P.

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- (19) Represents shares underlying a warrant. Power to vote or dispose of the shares is held by Byron Roth, as Chief Executive Officer, and Gordon J. Roth, as Chief Financial Officer, of Roth Capital.
- (20) Includes 84,066 shares underlying a warrant. Sole power to vote or dispose of the shares is held by Mr. McDermott as trustee. Mr. McDermott was an officer and shareholder of Larus Corporation until its acquisition by Emrise in July 2004.
- (21) Includes 65,934 shares underlying a warrant. Mr. Yost was an officer and shareholder of Larus Corporation until its acquisition by Emrise in July 2004.
- (22) Represents 125,000 shares underlying warrants. Power to vote or dispose of the shares is held by Matthew Hayden as president of Hayden Communications, Inc. Hayden Communications, Inc. acts as an investor relations consultant to Emrise.
- (23) Includes 150,000 shares underlying a warrant and 103,181 shares held by Mr. Farndell's spouse. Mr. Farndell is a former human resources consultant to Emrise and is the brother-in-law of Carmine T. Oliva, who is an executive officer and director of Emrise.
- (24) Represents shares underlying a warrant. Mr. Jacobus is a former financial advisor to Emrise.
- (25) Mr. Moisset is a former employee of and former consultant to Emrise.
- (26) Includes 200,500 shares underlying warrants. Jason Oliva is a former financial advisor to Emrise and is the son of Carmine T. Oliva, who is an executive officer and director of Emrise.
- (27) Mr. Mirabella is a former consultant to Emrise.
- (28) Mr. Albanese is a former financial advisor to Emrise.

PRIVATE PLACEMENTS THROUGH WHICH THE SELLING SECURITY HOLDERS OBTAINED BENEFICIAL OWNERSHIP OF THE OFFERED SHARES

All of the shares of common stock being offered under this prospectus were issued, or are issuable upon exercise of warrants that were issued, in the below-described private placement transactions.

JANUARY 2005 PRIVATE PLACEMENT OF COMMON STOCK AND WARRANTS

On January 5, 2005, we issued to 17 accredited record holders in a private offering an aggregate of 12,503,500 shares of our common stock at a purchase

price of \$1.44 per share and five-year investor warrants to purchase up to an additional 3,125,875 shares of our common stock at an exercise price of \$1.73 per share.

Roth Capital, an NASD-registered broker-dealer, acted as placement agent in connection with the offering. We paid to Roth Capital cash placement agent fees and expenses of approximately \$961,000 and issued five-year placement warrants to purchase up to an aggregate of 650,310 shares of our common stock at an exercise price of \$1.73 per share in connection with the offering.

We agreed to register for resale the shares of common stock issued to investors and the shares of common stock issuable upon exercise of the investor warrants and placement warrants. The registration obligations require, among other things, that the registration statement of which this prospectus is a part be declared effective no later than June 4, 2005. We were unable to meet this obligation and therefore paid to each investor liquidated damages equal to 1% of the amount paid by the investor to us in the offering, which damage payments totaled an aggregate of approximately \$180,000. We also paid or must pay to each investor liquidated damages for the period from June 5, 2005 through the date the registration of which this prospectus is a part was declared effective, and for any future periods in which we are unable to maintain the effectiveness of the registration in accordance with the requirements of the registration rights agreement that we entered into with the investors. These liquidated damages are equal to 2% of the amount paid by each investor for the common shares still owned by the investor on each monthly anniversary of the date of the default that occurs prior to the cure of the default, pro rated on a daily basis for periods of default shorter than one month. The maximum aggregate liquidated

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damages payable to any investor will be equal to 10% of the aggregate amount paid by the investor for the shares of common stock. Accordingly, the maximum aggregate penalty that we would be required to pay under this provision is 10% of the approximate \$18,005,000 initial purchase price of the shares of common stock, which would be \$1,801,000.

The investor warrants and the placement warrants contain customary anti-dilution provisions for stock splits, stock dividends and the like and contain a net exercise cashless exercise feature that will permit the warrants to be exercised for a net number of shares using the spread between the warrant exercise price and the average of the closing sale prices for the five trading days immediately prior to the exercise of the warrant as payment for a reduced number of common shares. Use of the cashless exercise feature by the investors is limited to times when a valid resale prospectus is not then available for use by the investors.

The investor warrants and the placement warrants also contain a call provision. The call provision generally provides that if, at any time after the first anniversary of the issuance of the warrants, the volume weighted average trading price of our common stock for each of 30 consecutive trading days exceeds \$3.46, a valid resale prospectus is available for the shares of common stock underlying the warrants or the shares are eligible for resale without volume restrictions pursuant to Rule 144(k) under the Securities Act, and we have complied with our obligations under the warrant and related agreements, then we may require the warrant holder to exercise the warrant in full (subject to the 9.999% limitation described below) on the 30th day following written notice to the warrant holder if the call eligibility criteria described above continue to be met until that date.

In addition, the investor warrants and the placement warrants contain provisions limiting the exercise or call of the warrants to the extent necessary to insure that following the exercise or call, the total number of shares of common stock then beneficially owned by the warrant holder and its affiliates and others whose beneficial ownership would be aggregated with the holder's for purposes of Section 13(d) of the Exchange Act does not exceed 9.999% of the total number of then issued and outstanding shares of our common stock (including for such purpose the shares of common stock issuable upon such exercise or call). The 9.999% beneficial ownership limitation may not be waived. However, the beneficial ownership limitation does not preclude a holder from exercising a warrant and selling the shares underlying the warrant in stages over time where each stage does not cause the holder and its affiliates to beneficially own shares in excess of the limitation amount.

We have registered for resale under this prospectus the shares of common stock issued to investors in the offering and the shares of common stock underlying the investor warrants and the placement warrants. The securities purchase agreement, registration rights agreement and placement agent arrangements contain various indemnification provisions in connection with the offering and registration of the shares and warrants. There are no material relationships between us or our affiliates and any of the investors or placement agents, except that each of The Pinnacle Fund, L.P., JLF Offshore Fund, Ltd., JLF Asset Management, LLC (which entity is investment manager of three of the selling security holders, including JLF Offshore Fund, Ltd.) and Jeffrey L. Feinberg (the managing member of JLF Asset Management, LLC), became a beneficial owner of more than 5% of our outstanding common stock at the closing of the offering.

LARUS CORPORATION ACQUISITION

As described elsewhere in this prospectus, we acquired the outstanding capital stock of Larus Corporation in July 2004 from Noel C. McDermott, Trustee of the Noel C. McDermott Revocable Living Trust dated December 18, 1995, and Warren P. Yost and Gail A. Yost, Co-Trustees Under Declaration of Trust dated March 9, 1988. The purchase price for the acquisition consisted of \$1,000,000 in cash, the issuance of 1,213,592 shares of our common stock with a fair value of \$1,000,000, \$887,500 in the form of two short-term, zero interest promissory

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notes that have since been repaid, \$3,000,000 in the form of two subordinated secured promissory notes, warrants to purchase up to an aggregate of 150,000 shares of our stock at \$1.30 per share and approximately \$580,000 of acquisition costs. In addition, we assumed \$245,000 in accounts payable and accrued expenses and entered into an above-market real property lease with the sellers. The warrants contain a net exercise cashless exercise feature that will permit the warrants to be exercised for a net number of shares using the spread between the warrant exercise price and the average of the last reported sale prices for a share of our common stock on its principal trading market for the five trading days immediately prior to the exercise of the warrant as payment for a reduced number of common shares. We granted the sellers piggyback and demand registration rights for the shares we issued to them in the acquisition and for the shares that are issuable upon exercise of the warrants issued in the acquisition and have registered all of those shares for resale under this prospectus.

HAYDEN COMMUNICATIONS, INC. INVESTOR RELATIONS WARRANTS

In November 2004, we issued to Hayden Communications, Inc. warrants to purchase up to 100,000 shares of common stock as partial consideration for investor relations services. The warrants vested and become exercisable in three installments. The warrants vested on November 3, 2004 as to 25,000 underlying shares with an exercise price of \$0.85 per share and on March 3, 2005 as to 25,000 underlying shares with an exercise price of \$1.00 per share. The warrants vested on June 3, 2005 as to the remaining 50,000 underlying shares with an exercise price of \$1.15 per share. The warrants are exercisable for a period of three years commencing on their respective vesting dates.

On January 24, 2005, we issued to Hayden Communications, Inc. a fully-vested three-year warrant to purchase up to 25,000 shares of common stock as additional consideration for investor relations services. The exercise price of the warrant is \$2.00 per share. All of the warrants issued to Hayden Communications, Inc. contain a net exercise cashless exercise feature that will permit the warrants to be exercised for a net number of shares using the spread between the warrant exercise price and the average of the last bid and asked prices reported on the last business day immediately prior to the exercise of the warrant as payment for a reduced number of common shares. We agreed to register for resale and have included in this prospectus the 125,000 shares of common stock underlying the warrants issued to Hayden Communications, Inc.

OTHER PRIVATE PLACEMENT TRANSACTIONS

In October 2001, we issued to Placido Albanese a three-year warrant to purchase up to 15,000 shares of common stock at a per share exercise price of \$0.25 in consideration for financial advisory services rendered. Mr. Albanese exercised this warrant, and we have included the 15,000 outstanding shares of common stock for resale under this prospectus.

In October 2001, we issued to Joseph Mirabella a three-year warrant to purchase up to 50,000 shares of common stock at a per share exercise price of \$0.31 in consideration for consulting services rendered. Mr. Mirabella exercised this warrant, and we have included the \$0,000 outstanding shares of common stock for resale under this prospectus.

In September 2002, we issued to Jacques Moisset a three-year warrant to purchase up to 120,000 shares of common stock at a per share exercise price of \$0.50 in consideration for post-retirement business services rendered. We have included these underlying shares for resale under this prospectus. On August 3, 2005, Mr. Moisset received 78,042 shares of common stock through a cashless exercise of this entire warrant.

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In April 2003, we issued to George Farndell a three-year warrant to purchase up to 150,000 shares of common stock at a per share exercise price of \$0.75 in consideration for human resources consulting services rendered. We have included these underlying shares for resale under this prospectus.

In April 2003, we issued to Steven Jacobus a three-year warrant to purchase up to 50,000 shares of common stock at a per share exercise price of \$0.75 in consideration for financial advisory services rendered. We have included these underlying shares for resale under this prospectus.

In April 2003, we issued to Jason Oliva three-year warrants to purchase up to 100,000 shares of common stock at a per share exercise price of \$0.75 and up to 100,500 shares of common stock at a per share exercise price of \$1.00 in

consideration for financial advisory services rendered. We have included these underlying shares for resale under this prospectus.

PLAN OF DISTRIBUTION

The selling security holders and any of their donees, pledgees, assignees and other successors-in-interest may, from time to time, sell any or all of their shares of common stock being offered under this prospectus on any stock exchange, market or trading facility on which the shares are traded, or in private transactions. These sales, which may include block transactions, may be at fixed or negotiated prices. The selling security holders may use any one or more of the following methods when disposing of shares:

- o ordinary brokerage transactions and transactions in which the broker-dealer solicits purchasers;
- o block trades in which the broker-dealer will attempt to sell the shares as agent but may position and resell a portion of the block as principal to facilitate the transaction;
- o purchases by a broker-dealer as principal and resales by the broker-dealer for its own account;
- o an exchange distribution in accordance with the rules of the applicable exchange;
- o privately negotiated transactions;
- o through the distribution of the shares by any selling security holder to its partners, members or stockholders;
- o broker-dealers may agree with the selling security holders to sell a specified number of shares at a stipulated price per share;
- o one or more underwritten offerings on a firm commitment or best efforts basis;
- o a combination of any of these methods of sale; or
- o any other method permitted by applicable law; provided, however, that the selling security holders have agreed not to engage in short sales involving the shares offered under this prospectus.

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The shares may also be sold under Rule 144 under the Securities Act, if available, rather than under this prospectus. The selling security holders have the sole and absolute discretion not to accept any purchase offer or make any sale of shares if they deem the purchase price to be unsatisfactory at any particular time.

The selling security holders may pledge their shares to their brokers under the margin provisions of customer agreements. If a selling security holder defaults on a margin loan, the broker may, from time to time, offer and sell the pledged shares.

Broker-dealers engaged by the selling security holders may arrange for other broker-dealers to participate in sales. Broker-dealers may receive

commissions or discounts from the selling security holders (or, if any broker-dealer acts as agent for the purchaser of shares, from the purchaser) in amounts to be negotiated, which commissions as to a particular broker or dealer may be in excess of customary commissions to the extent permitted by applicable law.

If sales of shares offered under this prospectus are made to broker-dealers as principals, we would be required to file a post-effective amendment to the registration statement of which this prospectus is a part. In the post-effective amendment, we would be required to disclose the names of any participating broker-dealers and the compensation arrangements relating to such sales.

The selling security holders and any broker-dealers or agents that are involved in selling the shares offered under this prospectus may be deemed to be "underwriters" within the meaning of the Securities Act in connection with these sales. Commissions received by these broker-dealers or agents and any profit on the resale of the shares purchased by them may be deemed to be underwriting commissions or discounts under the Securities Act. Any broker-dealers or agents that are deemed to be underwriters may not sell shares offered under this prospectus unless and until we set forth the names of the underwriters and the material details of their underwriting arrangements in a supplement to this prospectus or, if required, in a replacement prospectus included in a post-effective amendment to the registration statement of which this prospectus is a part.

The selling security holders may sell all or any part of the shares offered under this prospectus through an underwriter. To our knowledge, no selling security holder has entered into any agreement with a prospective underwriter, and we cannot assure you as to whether any such agreement will be entered into. If a selling security holder informs us that it has entered into such an agreement or agreements, any material details will be set forth in a supplement to this prospectus or, if required, in a replacement prospectus included in a post-effective amendment to the registration statement of which this prospectus is a part.

The selling security holders and any other persons participating in the sale or distribution of the shares offered under this prospectus will be subject to applicable provisions of the Exchange Act, and the rules and regulations under that act, including Regulation M. These provisions may restrict activities of, and limit the timing of purchases and sales of any of the shares by, the selling security holders or any other person. Furthermore, under Regulation M, persons engaged in a distribution of securities are prohibited from simultaneously engaging in market making and other activities with respect to those securities for a specified period of time prior to the commencement of such distributions, subject to specified exceptions or exemptions. All of these limitations may affect the marketability of the shares.

This prospectus does not cover the sale or other transfer of any of the derivative securities whose underlying shares of common stock are being offered for sale pursuant to this prospectus. If a selling security holder transfers those derivative securities prior to conversion or exercise, then the transferee of those derivative securities may not sell the underlying shares of common stock under this prospectus unless we amend or supplement this prospectus to cover such sales.

to this prospectus are transferred other than pursuant to a sale under this prospectus, then subsequent holders could not use this prospectus until a post-effective amendment or prospectus supplement is filed, naming such holders. We offer no assurance as to whether any of the selling security holders will sell all or any portion of the shares offered under this prospectus.

For the period a selling security holder holds a derivative security whose underlying shares of common stock are being offered for sale pursuant to this prospectus, the selling security holder has the opportunity to profit from a rise in the market price of our common stock without assuming the risk of ownership of the underlying shares of common stock. The terms on which we could obtain additional capital during the period in which those derivative securities remain outstanding may be adversely affected. The holders of derivative securities are most likely to voluntarily convert or exercise their derivative securities when the conversion or exercise price is less than the market price for our common stock. However, we offer no assurance as to whether any of those derivative securities will be converted or exercised.

We have agreed to pay all fees and expenses incident to the registration of the shares being offered under this prospectus. However, each selling security holder and purchaser is responsible for paying any discounts, concessions and similar selling expenses they incur.

We and certain of the selling security holders have agreed to indemnify one another against certain losses, claims, damages and liabilities arising in connection with this prospectus, including liabilities under the Securities Act.

INCORPORATION OF CERTAIN INFORMATION BY REFERENCE

The Commission allows us to incorporate by reference information we file with it, which means we can disclose important information to you by referring you to documents we have filed with the SEC. The information incorporated by reference is considered to be a part of this prospectus. We incorporate by reference the documents listed below and any future filings we make with the Commission under Sections 13(a), 13(c), 14 or 15(d) of the Exchange Act prior to the termination of the offering covered by this prospectus:

- o Our current report on Form 8-K for January 5, 2005, as filed with the Commission on January 6, 2005 (File No. 1-10346);
- o Amendment No. 1 to our current report on Form 8-K for January 5, 2005, as filed with the Commission on January 7, 2005;
- o Amendment No. 1 to our current report on Form 8-K for December 29, 2004, as filed with the Commission on January 7, 2005;
- O Our current report on Form 8-K for March 2, 2005, as filed with the Commission on March 7, 2005;
- Our current report on Form 8-K for March 18, 2005, as filed with the Commission on March 24, 2005;
- O Our current report on Form 8-K for April 5, 2005, as filed with the Commission on April 8, 2005;

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Our annual report on Form 10-K for the year ended December 31, 2004,

as filed with the Commission on April 8, 2005;

- o Amendment No. 4 to our current report on Form 8-K for July 13, 2004, as filed with the Commission on April 12, 2005;
- o Our quarterly report on Form 10-Q for the quarter ended March 31, 2005, as filed with the Commission on May 16, 2005;
- o Our current report on Form 8-K for May 6, 2005, as filed with the Commission on May 19, 2005;
- o Amendment No. 1 to our current report on Form 8-K for March 18, 2005, as filed with the Commission on May 27, 2005;
- o Amendment No. 2 to our current report on Form 8-K for March 18, 2005, as filed with the Commission on June 17, 2005;
- o Amendment No. 1 to our quarterly report on Form 10-Q for the quarter ended March 31, 2005, as filed with the Commission on June 17, 2005;
- o Amendment No. 3 to our current report on Form 8-K for March 18, 2005, as filed with the Commission on June 28, 2005;
- O Our current report on Form 8-K for July 3, 2005, as filed with the Commission on July 5, 2005;
- O Our current report on Form 8-K for July 8, 2005, as filed with the Commission on August 15, 2005;
- O Our quarterly report on Form 10-Q for the quarter ended June 30, 2005, as filed with the Commission on August 22, 2005;
- O Our current report on Form 8-K for August 25, 2005, as filed with the Commission on August 31, 2005;
- o Our current report on Form 8-K for August 26, 2005, as filed with the Commission on September 1, 2005;
- o Amendment No. 1 to our current report on Form 8-K for August 26, 2005, as filed with the Commission on September 8, 2005;
- Our current report on Form 8-K for September 2, 2005, as filed with the Commission on September 9, 2005;
- o Amendment No. 1 to our current report on Form 8-K for September 2, 2005, as filed with the Commission on October 4, 2005;
- o Amendment No. 2 to our current report on Form 8-K for September 2, 2005, as filed with the Commission on October 20, 2005; and

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o The description of our capital stock contained in our Form 8-A12B, as filed with the Commission on August 4, 2005, including any amendment or reports filed for the purpose of updating such description.

Any statement in a document incorporated or deemed to be incorporated by reference in this prospectus is deemed to be modified or superseded to the

extent that a statement contained in this prospectus, or in any other document we subsequently file with the Commission, modifies or supersedes that statement. If any statement is modified or superseded, it does not constitute a part of this prospectus, except as modified or superseded.

Notwithstanding the above, information that is "furnished to" the Commission shall not be deemed "filed with" the Commission and shall not be deemed incorporated by reference into this prospectus or the registration statement of which this prospectus is a part.

We will provide to each person, including any beneficial owner, to whom a prospectus is delivered, a copy of any or all of the information that has been incorporated by reference in this prospectus but not delivered with this prospectus. You may request a copy of these filings, at no cost, by writing or telephoning us at the following address and phone number:

Emrise Corporation 9485 Haven Avenue, Suite 100 Rancho Cucamonga, CA 91730 Attn: Chief Financial Officer Telephone: (909) 987-9220

LEGAL MATTERS

The validity of the shares of common stock offered in this offering will be passed upon for us by Rutan & Tucker, LLP, Costa Mesa, California.

EXPERTS

Grant Thornton LLP, independent registered public accounting firm, has audited Emrise Corporation's consolidated balance sheets as of December 31, 2004 and 2003, and related consolidated statements of operations, comprehensive income (loss), stockholders' equity and cash flows for the years ended December 31, 2004, 2003 and 2002, as set forth in their report. Grant Thornton LLP has also audited Emrise Corporation's Schedule II for the years ended December 31, 2004, 2003 and 2002. We have incorporated by reference those consolidated financial statements and Schedule II in the prospectus and elsewhere in the registration statement in reliance on Grant Thornton LLP's report, given on their authority as experts in accounting and auditing.

Grant Thornton UK LLP, independent auditor, has audited the consolidated balance sheets and the company balance sheets of Pascall Electronic (Holdings) Limited as of March 18, 2005 and March 31, 2004, and the consolidated profit and loss accounts and consolidated cash flows for the periods from April 1, 2004 to March 18, 2005 and for the year ended March 31, 2004. We have incorporated by reference those consolidated financial statements in the prospectus and elsewhere in the registration statement in reliance on Grant Thornton UK LLP's report, given on their authority as experts in accounting and auditing.

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Mayer Hoffman McCann P.C., independent auditor, has audited RO Associates Incorporated's balance sheet as of May 31, 2005 and the related statements of income and retained earnings and cash flow for the year then ended. We have incorporated by reference those financial statements in the prospectus and elsewhere in the registration statement in reliance on said firm's report, given on their authority as experts in accounting and auditing.

TRANSFER AGENT AND REGISTRAR

The stock transfer agent and registrar for our common stock is Computershare Investor Services. Its telephone number is (303) 986-5400.

WHERE YOU CAN FIND ADDITIONAL INFORMATION

We have filed a registration statement on Form S-3 with respect to the common stock offered in this prospectus with the Commission in accordance with the Securities Act, and the rules and regulations enacted under its authority. This prospectus, which constitutes a part of the registration statement, does not contain all of the information included in the registration statement and its exhibits and schedules. Statements contained in this prospectus regarding the contents of any document referred to in this prospectus are not necessarily complete, and in each instance, we refer you to the full text of the document which is filed as an exhibit to the registration statement. Each statement concerning a document which is filed as an exhibit should be read along with the entire document. For further information regarding us and the common stock offered in this prospectus, we refer you to this registration statement and its exhibits and schedules, which may be inspected without charge at the Commission's Public Reference Room at 450 Fifth Street, N.W., Washington, D.C. 20549. Please call the SEC at 1-800-SEC-0330 for further information on the Public Reference Room.

The Commission also maintains an Internet website that contains reports, proxy and information statements, and other information regarding issuers, such as us, that file electronically with the Commission. The Commission's website address is http://www.sec.gov.

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EMRISE CORPORATION

PROSPECTUS

NOVEMBER 2, 2005

WE HAVE NOT AUTHORIZED ANY DEALER, SALESMAN OR OTHER PERSON TO GIVE ANY INFORMATION OR TO MAKE ANY REPRESENTATION OTHER THAN THOSE CONTAINED IN THIS PROSPECTUS AND ANY ACCOMPANYING SUPPLEMENT TO THIS PROSPECTUS. YOU MUST NOT RELY UPON ANY INFORMATION OR REPRESENTATION NOT CONTAINED IN THIS PROSPECTUS OR ANY ACCOMPANYING PROSPECTUS SUPPLEMENT. THIS PROSPECTUS AND ANY ACCOMPANYING SUPPLEMENT TO THIS PROSPECTUS DO NOT CONSTITUTE AN OFFER TO SELL OR THE SOLICITATION OF AN OFFER TO BUY ANY SECURITIES OTHER THAN THE REGISTERED SECURITIES TO WHICH THEY RELATE, NOR DO THIS PROSPECTUS AND ANY ACCOMPANYING SUPPLEMENT TO THIS PROSPECTUS CONSTITUTE AN OFFER TO SELL OR THE SOLICITATION OF AN OFFER TO BUY SECURITIES IN ANY JURISDICTION TO ANY PERSON TO WHOM IT IS UNLAWFUL TO MAKE SUCH OFFER OR SOLICITATION IN SUCH JURISDICTION. THE INFORMATION CONTAINED IN THIS PROSPECTUS AND ANY ACCOMPANYING SUPPLEMENT TO THIS PROSPECTUS IS ACCURATE AS OF THE DATES ON THEIR COVERS. WHEN WE DELIVER THIS PROSPECTUS OR A SUPPLEMENT OR MAKE A SALE PURSUANT TO THIS PROSPECTUS OR A SUPPLEMENT, WE ARE NOT IMPLYING THAT THE INFORMATION IS CURRENT AS OF THE DATE

OF THE DELIVERY OR SALE.