

INPUT OUTPUT INC
Form S-3/A
May 28, 2004

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Amendment No. 1

to

Form S-3

REGISTRATION STATEMENT UNDER THE SECURITIES ACT OF 1933

Input/Output, Inc.

(Exact name of Registrant as specified in its charter)

Delaware
*(State or other jurisdiction of
incorporation or organization)*

22-2286646
*(I.R.S. Employer
Identification No.)*

12300 Parc Crest Drive

**Stafford, Texas 77477
(281) 933-3339**

(Address, Including Zip Code, and Telephone Number, Including Area Code, of Registrant's Principal Offices)

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Approximate date of commencement of proposed sale to the public: As soon as practicable after this Registration Statement becomes effective.

If the only securities being registered on this Form are being offered pursuant to dividend or interest reinvestment plans, please check the following box.

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

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box. o

If this Form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act, please 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 delivery of the prospectus is expected to be made pursuant to Rule 434, please check the following box. o

CALCULATION OF REGISTRATION FEE

Title of Each Class of Securities to be Registered	Proposed Maximum Aggregate Offering Price(1)	Amount of Registration Fee(2)
Common Stock, par value \$0.01 per share (including the associated preferred stock purchase rights)	\$147,400,000	\$18,676

- (1) Estimated pursuant to Rule 457(o) under the Securities Act of 1933, as amended (the Securities Act) solely for the purpose of calculating the registration fee.
- (2) A filing fee of \$16,903 was previously paid in connection with the initial filing of this Registration Statement on Form S-3 (No. 333-115345) on May 10, 2004.

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

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The information in this prospectus is not complete and may be changed. We may not sell these securities until the registration statement filed with the Securities and Exchange Commission is effective. This prospectus is not an offer to sell these securities and we are not soliciting offers to buy these securities in any state where the offer or sale is not permitted.

PROSPECTUS (Subject to Completion)
Issued May 28, 2004

20,000,000 Shares

COMMON STOCK

We are offering 20,000,000 shares. The selling stockholders, none of whom are our directors, officers, employees or their affiliates, are offering 209,631 shares.

Our common stock is listed on the New York Stock Exchange under the symbol IO. On May 27, 2004, the reported last sale price of our common stock on the New York Stock Exchange was \$7.21 per share.

On May 10, 2004, we agreed to acquire all of the outstanding capital stock of GX Technology Corporation. Completion of this offering is conditioned upon our closing of the acquisition of GX Technology Corporation. See Risk Factors Risks Related to Our Planned Acquisition of GXT.

Investing in our common stock involves risks. See Risk Factors beginning on page 16.

PRICE \$ A SHARE

	<i>Price to Public</i>	<i>Underwriting Discounts and Commissions</i>	<i>Proceeds to Input/Output, Inc.</i>	<i>Proceeds to Selling Stockholders</i>
Per Share	\$	\$	\$	\$
Total	\$	\$	\$	\$

We have granted the underwriters the right to purchase up to an additional 3,031,445 shares to cover over-allotments.

The Securities and Exchange Commission and state securities regulators have not approved or disapproved these securities, or determined if this prospectus is truthful or complete. Any representation to the contrary is a criminal offense.

Morgan Stanley & Co. Incorporated expects to deliver the shares to purchasers on _____, 2004.

MORGAN STANLEY

JOHNSON RICE & COMPANY L.L.C.
 _____, 2004

SANDERS MORRIS HARRIS

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You should rely only on the information contained or incorporated by reference in this prospectus. We have not, and the underwriters have not, authorized anyone to provide you with information different from that contained in this prospectus. If anyone provides you with different or inconsistent information, you should not rely on it. We are not, and the underwriters are not, offering to sell shares of common stock or seeking offers to buy shares of common stock in any jurisdiction where offers and sales are not permitted. The information contained in this prospectus is accurate only as of the date of this prospectus, regardless of the time of delivery of this prospectus or any sale of the common stock offered hereby. As used in this prospectus, Input/ Output, I/O, company, we, our, ours and us refer to Input/ Output, Inc. and its consolidated subsidiaries, except where the context otherwise requires or as otherwise indicated.

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PROSPECTUS SUMMARY

This summary highlights selected information about us, this offering and our acquisition of GX Technology Corporation (GXT) contained elsewhere in this prospectus and the documents incorporated by reference. This summary is not complete and may not contain all of the information that is important to you. We encourage you to read this prospectus, including the information under the caption Risk Factors, the information we incorporate by reference, and the documents to which we refer you in their entirety.

Company Overview

We are a leading provider of seismic imaging technology used by oil and gas companies and seismic contractors for exploration, appraisal, development and reservoir monitoring in both land and marine environments. We add value for our customers by providing technologies and services to collect seismic data and develop geophysical images to find, develop and extract hydrocarbons more quickly and economically. We offer a full suite of related products and services for seismic data acquisition and processing without owning vessels or maintaining crews typically used in the field to acquire seismic data.

Our strategy is to be the leading company in delivering cost-effective seismic imaging technologies, from designing and planning seismic surveys to acquiring and processing seismic data which we refer to as the seismic value chain. Through recent acquisitions, we have implemented our strategy to reposition our business from being primarily an equipment and technology provider to offering our customers full-seismic imaging solutions. We believe our technologies and solutions will improve exploration and production economics for the energy industry. Our seismic data acquisition products are well suited for both traditional three-dimensional (3-D) and time-lapse, or four-dimensional (4-D), data collection as well as more advanced multi-component or full-wave seismic data collection techniques. Based on historical revenues, we believe that we are a market leader in numerous product lines, such as geophones, navigation and data management software and marine positioning systems. Through our AXIS business unit, we also offer advanced seismic data processing and imaging services, with a particular focus on land environments.

On February 23, 2004, we acquired Concept Holdings Systems Limited. Concept Systems, based in Scotland, is a provider of integrated planning, navigation and data management software and solutions for towed streamer, seabed and land seismic operations. Its software is installed on the majority of towed streamer marine vessels worldwide and has rapidly become an integral component of redeployable and permanent seabed monitoring systems. Concept Systems also offers services to assist oil and gas companies in implementing 4-D seismic programs to permanently monitor hydrocarbon reservoirs. Its software and services will complement our marine control and positioning equipment and VectorSeis digital sensor technologies. This acquisition will also extend our services offering to the design and optimization of 4-D reservoir monitoring (or life-of-field) seismic projects. See Recent Developments below for a further description of the Concept Systems acquisition.

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Planned Acquisition of GXT

On May 10, 2004, we entered into a stock purchase agreement with GXT and its stockholders to acquire all of the outstanding capital stock of GXT, a leading provider of seismic data processing and subsurface imaging services to oil and gas companies. GXT is focused on marine environments and specializes in providing customized imaging solutions utilizing GXT's expertise in computer processing technology. The scope of GXT's products and services has expanded over time in response to increased demand from its customers for enhanced technologies. Revenues have grown from \$18.0 million for the year ended June 30, 2001 to \$41.0 million for the year ended June 30, 2003. Income from operations for the same periods increased from \$1.0 million to \$6.2 million. During 2003, GXT expanded its business to include full-scope seismic services through its Integrated Seismic Solutions (ISS) offering and related services. This expanded offering of products and services resulted in continued revenue and earnings growth. For the nine months ended March 31, 2004 GXT's revenues grew to \$47.2 million, a 58% increase compared to the same period during its prior fiscal year. Income from operations grew 55% to \$7.2 million over the same period. GXT's EBITDA for the nine months ended March 31, 2004 was \$17.6 million, reflecting continued growth across all product and service lines. See *Reconciliation of Non-GAAP Financial Data* on page 14. We expect to complete the GXT acquisition concurrently with the completion of this offering.

Anticipated Benefits of GXT Acquisition

We believe that the acquisition of GXT will provide us with several strategic benefits:

More Balanced Position in the Seismic Value Chain. The GXT acquisition will solidify our transition from primarily manufacturing seismic data collection equipment to providing full-scope seismic technology solutions. In addition, the GXT acquisition will strengthen our expertise and capabilities at each technology link in the seismic value chain, from survey planning and design to data collection management and pre-processing to image development. This broader, more technology-focused and seismic-oriented presence will enable us to deliver additional integrated, full-service imaging solutions to our customers. Additionally, we expect that the more consistent service-based revenue streams from GXT's business will lessen the historical volatility in our revenues from original equipment manufacturing.

More Service and Technology Intensive Business Model. We believe that the GXT acquisition will increase our emphasis on human capital, service and technology. We will own advanced technologies across the entire seismic spectrum from survey planning through final image development, including the critical technologies associated with full-wave imaging. These technologies will include our digital, full-wave sensor (VectorSeis) and GXT's multi-component processing capability. While we focus on delivering integrated seismic solutions, we do not intend to participate in the traditional, capital-intensive logistical aspects of field data collection. Our approach differs from the conventional seismic contracting model in which significant investment is required for logistics assets, such as boats and crews to collect data in the field.

Accelerated Development of Imaging Solutions. GXT's advanced imaging technology, particularly pre-stack depth and time migration solutions, as well as its experience in deep marine environments, complements the advanced velocity imaging technology and experience in land environments that we have developed in our AXIS group. GTX's pre-stack depth migration

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solutions involve advanced processing techniques to convert seismic wave time-based information to depth-based information. This conversion to depth-based data is relied upon by geologists to more accurately map subsurface structures. GXT's pre-stack depth migration techniques are well suited for complex hydrocarbon reservoirs and deeper drilling targets. The accurate time-to-depth conversion that GXT's techniques feature is important in processing digital, full-wave data from next-generation sensors, including our VectorSeis sensors. We believe that the combination of our technologies, bases of experience and technology development teams will enable us to accelerate our seismic technology development and advance our capabilities to provide improved digital full-wave imaging solutions.

Enhanced Ability to Service the Full Reservoir Life Cycle. The GXT acquisition will improve our ability to provide seismic imaging solutions throughout the life cycle of an oil or natural gas reservoir. The combination of our digital seismic data collection and monitoring technology and AXIS processing and imaging capabilities, when combined with GXT's advanced processing and imaging expertise, will improve our ability to extend the use of our seismic services across the productive life of the reservoir.

Expanded Collaboration with Oil and Gas Customers. GXT has standing relationships with major, independent and national oil and gas companies. We intend to leverage these relationships to provide full-scope seismic solutions through GXT's ISS services. We believe this approach will enable us to increase the use of our seismic data acquisition and monitoring technologies and services by these oil and gas companies and the seismic contractors who work with them. We also intend to use the relationships to better understand our target customers' geophysical needs and to develop technologies and services that better address those needs.

Transaction Structure

We have agreed to pay a total of approximately \$134.5 million in cash to purchase all outstanding shares of capital stock of GXT. The purchase price includes cash payments for the cancellation of certain outstanding GXT stock options. Under the stock purchase agreement, GXT stock options not extinguished for cash will become options to purchase I/O common stock. These stock options will be in-the-money by an estimated aggregate amount of \$15.5 million when assumed upon completion of the GXT acquisition and will be fully vested, but they will not be exercisable until 90 days following the closing of the GXT acquisition.

In addition, approximately \$5.0 million of the purchase price will be held in escrow for one year to facilitate recourse for us in the event of certain breaches or violations of representations and covenants made by GXT or its stockholders under the stock purchase agreement.

The cash portion of the purchase price for GXT will be funded from the net proceeds of this offering. Completion of this offering is conditioned upon the completion of the GXT acquisition.

The completion of the GXT acquisition is subject to a number of conditions, including the absence of a material breach by either party of its respective representations or covenants contained in the purchase agreement, the absence of a material adverse effect on either party and the delivery of legal opinions and other documentation on behalf of each party. The parties have the right to terminate the GXT acquisition if it is not completed by August 15, 2004. We may also terminate the transaction if we are unable to satisfy our financing requirements to fund the purchase price for the acquisition.

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Our Strengths and Challenges

We believe our strengths include the following:

A Leader in Subsurface Imaging Technology. We believe that our technology is central to the development of digital full-wave imaging. We expect full-wave imaging to be the next generation of seismic data acquisition and processing. Combined with those of GXT, our proprietary technologies will include our:

VectorSeis digital sensors, which allow full-wave data acquisition on land, on the seabed and in-well, and which have been proven effective in nearly 100 field surveys worldwide;

processing services incorporating our AXIS subsidiary's AZIM processing technology, along with GXT's processing technologies, which, when combined with VectorSeis data, result in higher quality seismic images;

positioning and streamer control systems, which support accurate and repeatable surveys in marine applications; and

data management software, which facilitates the collection and integration of acquired data streams.

We believe we have a leading market share in a number of important seismic technologies, including digital sensors, geophones, navigation and data management software, positioning and streamer control systems and anisotropic processing.

Experienced Management. Our executive management team has extensive experience in the seismic technology and services industry. In April 2003, Robert P. Peebler became our Chief Executive Officer after serving as a member of our Board of Directors since 1999. Mr. Peebler has over 30 years experience in the oil and gas industry, during which he has focused most of his time on recognizing and commercializing new technology to enhance hydrocarbon exploration and production. To help lead the development and implementation of our seismic image-focused strategy, Mr. Peebler recruited several new senior executives to augment our management team, including Jorge Machnizh, Executive Vice President and Chief Operating Officer, J. Michael Kirksey, Executive Vice President and Chief Financial Officer, Chris Friedemann, Vice President - Commercial Development, and Jim Hollis, Vice President - Land Imaging Systems. In addition, Bjarte Fageraas, who served as our Vice President and Chief Technology Officer since 2001, has become Vice President - Marine Imaging Systems. The Concept Systems acquisition further augmented our management team, adding Alastair Hay, Managing Director of Concept Systems, and Alan Faichney, Director of Technology of Concept Systems, among others. With the GXT acquisition, we intend for Mick Lambert, currently President and Chief Executive Officer of GXT, to continue to lead the GXT operations and join our senior management group. In addition, we will inherit an accomplished GXT management team with proven success in the development and commercial application of seismic processing technology.

Strategic Alliances with Oil Companies. In October 2003, we entered into a non-binding memorandum of understanding to form a strategic seismic technology alliance with Apache Corporation, a leading independent oil and gas exploration and production company. This alliance is designed to accelerate the adoption of our VectorSeis sensor and AZIM processing and imaging technologies while solving some of the more complex reservoir problems in Apache's global

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portfolio. We are pursuing similar strategic alliances with other oil and gas exploration and production companies. The collaborative relationships that GXT has established with oil and gas companies will contribute to these efforts.

Global Presence. We have resources and operations located in the historical North American oil and gas centers of Houston, New Orleans and Denver as well as key oil and gas centers around the world, including the Middle East, North Sea, Beijing and Moscow. This global presence gives us the local contacts necessary to be responsive with our growing international customer base. GXT adds to this capability with offices in Calgary, London and Aberdeen.

Despite these strengths, we continue to face a number of serious challenges in our business. We experienced operating losses for the years ended December 31, 2003 and 2002, the seven months ended December 31, 2000, and the years ended May 31, 2000 and 1999. As of December 31, 2003, we had an accumulated deficit of approximately \$158.5 million. A number of factors have contributed to our operating losses, including a general downturn in the seismic equipment market, significant charges related to our restructuring activities and research and development expenditures.

Furthermore, our business is subject to numerous risks. Since our current strategy depends, to a large extent, on market acceptance of our VectorSeis products and other seismic technology, any actual or perceived failures in the performance or reliability of those products would negatively impact our sales and results of operations. In addition, our reliance on a relatively small number of significant customers has traditionally exposed us to risks related to customer concentration. For a discussion of the risks related to our business, please read **Risk Factors** beginning on page 16.

Our Strategy

Our goal is to integrate the next generation of sensors and processing technology into seismic imaging solutions that will enable oil and gas companies to more cost-effectively find and manage reservoirs throughout the production life cycle. We intend to do this by building on our current technology platforms through both internal development and selective acquisitions. In addition, we intend to use our technology to lower the cost and shorten the cycle times of seismic surveys by replacing labor-intensive processes with more efficient, technology-based systems. Specifically, we intend to:

Lead the Next Generation of Seismic Imaging Technology. The reservoir discovery and management process has grown increasingly challenging due to greater reservoir depths, more complex and subtle reservoir structures and the need to track fluid movements within hydrocarbon reservoirs. Conventional analog sensor and seismic processing technology has matured and proven unable to adequately meet these more difficult reservoir challenges. Our digital VectorSeis sensor captures significantly greater data than conventional analog sensors. We believe that using VectorSeis sensors in conjunction with the advanced processing techniques of AXIS and GXT generally produces more detailed, better quality seismic images than conventional seismic technology. We believe that these improved images will enable oil and gas companies to more economically find and develop the deeper and more geologically complex and subtle hydrocarbon fields that they are increasingly exploring and developing. We believe that our integrated service and technology offerings across the seismic value chain and our digital sensor and full-wave processing technologies will position us as one of the leaders in subsurface imaging technologies.

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Extend Our Seismic Imaging Solutions Across the Full Reservoir Life Cycle. In the past, seismic imaging has been used primarily to assist in hydrocarbon exploration, rather than in developing, or enhancing production from, a proven field. By comparing detailed images of the same reservoir at different points in time, oil and gas companies can track fluid movements and enhance production from a reservoir. We intend to leverage the strength of Concept Systems in designing and managing 4-D life-of-field projects to work with oil and gas companies to apply our seismic imaging technology to reservoir development and production, as well as exploration. These technologies will include processing services, such as those provided by GXT.

Reduce the Costs and Cycle Time of the Seismic Process. We intend to collaborate with oil and gas companies through survey planning, data acquisition, processing and image development in order to deliver seismic image solutions. We believe that there are efficiencies to be gained from integrating the process components and improving sequencing and outsourcing logistics, which should shorten the overall cycle time as well as reduce the overall cost of the seismic process to oil and gas companies.

Make Selective Acquisitions. We intend to pursue selective acquisitions of products and services that accelerate the adoption of our advanced seismic imaging products and services. We seek to acquire and integrate technologies and services that will expand our ability to provide next generation imaging services and products to oil and gas companies and seismic contractors throughout the life of a reservoir. We will continue to identify, evaluate and pursue acquisitions of products, services and organizations that are strategically important to us and our growth strategy. In February 2004, we acquired Concept Systems. We plan to complete the acquisition of GXT concurrently with the consummation of this offering. See *Planned Acquisition of GXT* above and *Recent Developments* below.

Expand Our Strategic Alliances. We intend to pursue strategic alliances with oil and gas exploration and production companies, which we believe will enable us to more effectively influence technology and equipment deployment in the seismic value chain. These alliances will also provide us with the opportunity to directly market our technology and services for use throughout the reservoir life cycle. Working directly with oil and gas companies will also provide us with valuable information to guide our product development efforts. Our strategic alliance with Apache Corporation is the first of these alliances that we are pursuing. We believe that GXT's collaborative relationships with oil and gas customers should help us develop other relationships. In addition, we intend to enhance our current relationships with seismic contractors.

Industry Overview

Oil and gas companies have traditionally used seismic data to reduce exploration risk by creating an image of the subsurface. Typically, an oil and gas company contracts with a geophysical logistics contracting company to acquire seismic data in a selected area. The contractor will often rely on third parties, such as I/O, to provide the contractor with the technology and equipment necessary for data acquisition. After collection, either the geophysical contractor or another data processor processes the data through algorithms designed to create a seismic image. Geoscientists then interpret the data by reviewing the image and integrating known facts about the surrounding geology.

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In recent years, two principal factors have negatively affected demand for seismic data by oil and gas companies: the maturation of 3-D data collection technology and the business model adopted by geophysical contractors to leverage large fixed investments in equipment. The advent of commercial 3-D seismic data collection in the 1980s caused a sharp increase in demand for seismic data as oil and gas companies sought to capitalize on the improved images from 3-D technology compared to those from 2-D technology. Recently, however, without advances beyond 3-D in imaging technology, oil and gas companies have not had a compelling reason to maintain a high rate of purchasing seismic surveys. Much of the current demand for conventional analog 3-D seismic surveys comes from areas where use of the technology was not quickly adopted, such as China and the Commonwealth of Independent States (CIS).

The traditional business model employed by geophysical contractors has also impacted demand. In an effort to achieve higher utilization of the large investments needed to conduct 3-D surveys, geophysical contractors increasingly began to collect speculative surveys for their own account as customer-requested demand for surveys declined. Contractors typically selected an area, acquired data using generic acquisition parameters and generic processing algorithms, capitalized the acquisition costs and sold the survey results to multiple parties. These general speculative surveys were not tailored to meet a particular request and caused an oversupply of seismic data. Additionally, since contractors incurred most of the costs of speculative seismic data at the time of acquisition, contractors lowered prices to recover as much of the fixed investment as possible which, in the process, drove margins down.

We believe that the demand for seismic services will increase. Accelerating global reservoir decline rates coupled with recent reserve writedowns have increased the pressure on oil and gas companies to discover additional reserves. We expect these increased exploration demands to drive increased demand for seismic technology and services. Additionally, oil and gas companies are focusing on deeper hydrocarbon reservoirs with more complex and more subtle structures, making development more challenging. As a result, oil and gas companies are increasingly using seismic data to enhance the development of and production from known fields. By repeating a seismic survey over a defined area, oil and gas companies can detect untapped areas of a reservoir and adjust their drilling program to optimize production. Such time-lapse seismic images are referred to as 4-D surveys and make seismic data relevant to the entire life cycle of the reservoir.

We also believe that oil and gas companies will increasingly value seismic technology providers who will collaborate with them to tailor surveys that address specific geophysical problems and to apply advanced digital sensor and imaging technologies that account for the geologic peculiarities of a specific area. We believe oil and gas companies will rely less on undifferentiated, mass seismic studies created using analog sensors and traditional processing technologies that do not adequately identify geologic complexities such as lithology and fluid properties.

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Recent Developments

In December 2003, we issued \$60.0 million of convertible unsecured notes, which mature in December 2008 and bear interest at an annual rate of 5.5%, payable semi-annually. The notes, which are not redeemable by us prior to their maturity, are convertible into our common stock at an initial conversion rate of 231.4815 shares per \$1,000 principal amount of notes (a conversion price of \$4.32 per share), which represents approximately 13.9 million total common shares. A portion of the proceeds from the convertible notes offering was applied to repay the remaining \$16.0 million outstanding indebtedness under an unsecured promissory note scheduled to mature on May 7, 2004, which bore interest at 13% per annum.

In accordance with the terms of a registration rights agreement we entered into with the initial purchaser of the convertible notes, we filed a registration statement with the SEC covering resales of the convertible notes and underlying shares of common stock that could be acquired on conversion. On April 30, 2004, this registration statement was declared effective. As a result, and subject to certain exceptions, the convertible notes and approximately 13.9 million shares of common stock that may be acquired on conversion of the convertible notes will become free of previously existing restrictions when and if they are sold under that registration statement.

On February 23, 2004, we purchased all of the share capital of Concept Systems in a privately negotiated transaction. The total purchase price was approximately \$38.4 million in cash, including acquisition costs, and 1,680,000 shares of our common stock. On February 23, 2004, the last reported sale price of our common stock on the New York Stock Exchange was \$6.41 per share. The cash used to acquire Concept Systems was primarily from the proceeds of our convertible notes offering completed in December 2003 and from general corporate funds. A portion of the cash component of the purchase price was used to pay down certain outstanding debt of Concept Systems totaling approximately \$26.0 million. In connection with the acquisition, we granted to former Concept Systems securityholders certain demand and piggyback registration rights for the shares of our common stock issued in the transaction.

On April 28, 2004, we announced that Terra Seismic Services A/S, a seismic contractor headquartered in Oslo, Norway, had become the first customer to purchase our VectorSeis Ocean redeployable seabed system. Capable of operating in depths down to approximately 6,500 feet of water, this VectorSeis Ocean system will initially be deployed in the Gulf of Mexico to acquire data for use by a major integrated oil and gas company. We recognized revenue of approximately \$3.1 million from this sale in the first quarter of 2004, and expect to receive additional revenues from Terra Seismic of approximately \$12.0 million over the next 18 months.

Trademarks, Service Marks and Registered Marks

The information contained or incorporated by reference in this prospectus contains references to trademarks, service marks and registered marks of Input/ Output and our subsidiaries, as indicated. Except where stated otherwise or unless the context otherwise requires, the terms VectorSeis, Tescorp, DigiCourse and VectorSeis System Four refer to our VectorSeis®, Tescorp®, DigiCourse® and VectorSeis System Four® registered marks, and the terms AZIM, True Digital, DigiShot, Applied MEMS, MRX, RSR, Vib Pro and Image refer to our AZIM, True Digital, DigiShot™, Applied MEMS™, MRX™, RSR™, Vib Pro™ and Image™ trademarks and service marks.

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Principal Executive Offices

Our principal executive offices are located at 12300 Parc Crest Drive, Stafford, Texas 77477. Our telephone number at that location is (281) 933-3339.

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THE OFFERING

Common stock offered by Input/ Output, Inc.	20,000,000 shares
Common stock offered by selling stockholders	209,631 shares
Total	20,209,631 shares
Common stock to be outstanding after this offering	73,126,054 shares
Over-allotment option	3,031,445 shares
Use of proceeds	The net proceeds we receive from this offering are expected to be used to pay the cash portion of the purchase price for the GXT acquisition. We will not receive any proceeds from the sale of shares of common stock by the selling stockholders. See Use of Proceeds on page 30.
Dividend Policy	We do not expect to pay dividends on our shares of common stock for the foreseeable future.

New York Stock Exchange symbol IO

The number of shares of common stock to be outstanding after this offering is based on 53,126,054 shares outstanding as of April 30, 2004 and, unless we indicate otherwise, excludes:

6,231,287 shares of common stock reserved for issuance under our stock option and stock incentive plans and agreements, of which options to purchase 5,719,131 shares at an average exercise price of \$8.00 were outstanding as of April 30, 2004;

13,888,888 shares of common stock issuable upon conversion of our 5.5% senior convertible notes due 2008;

an estimated 2,900,000 shares of common stock issuable upon exercise of I/O stock options granted in connection with the GXT acquisition; and

3,031,445 shares of common stock that the underwriters have an option to purchase solely to cover over-allotments.

RISK FACTORS

In evaluating an investment in our common stock, prospective investors should carefully consider, along with the other information set forth in this prospectus, the specific factors set forth under Risk Factors beginning on page 16.

Table of Contents**SUMMARY FINANCIAL DATA**

The following data (except pro forma data), insofar as they relate to each of the years in the three-year period ended December 31, 2003, have been derived from our audited consolidated financial statements, including the consolidated balance sheets at December 31, 2002 and 2003 and the related consolidated statements of operations and cash flows for the three years ended December 31, 2003 and the notes thereto, incorporated by reference into this prospectus. The following data (except pro forma data) relating to the three months ended March 31, 2003 and 2004 have been derived from our unaudited consolidated financial statements, including the consolidated balance sheet at March 31, 2004, and the consolidated statements of operations and of cash flows for the three months ended March 31, 2003 and 2004, and the notes thereto, incorporated by reference into this prospectus. With respect to the unaudited consolidated financial data as of and for the three months ended March 31, 2003 and 2004, in the opinion of our management, all adjustments (consisting of normal recurring adjustments) considered necessary for a fair presentation have been included. Results of operations for the three months ended March 31, 2004 are not necessarily indicative of our operating results for a full year or of our future operations.

The unaudited pro forma statement of operations data give effect to this offering and the GXT acquisition as if those transactions had been consummated on January 1, 2003. The unaudited pro forma balance sheet data give effect to this offering and the GXT acquisition as if they had been consummated on March 31, 2004. The unaudited pro forma financial data are not necessarily indicative of operating results or financial position that would have been achieved had the GXT acquisition been consummated on the dates indicated and should not be construed as representative of future operating results or financial position. The following data should be read in conjunction with our historical audited and unaudited consolidated financial statements and the related notes thereto, which are incorporated by reference into this prospectus, the Unaudited Pro Forma Financial Statements beginning on page 36, and the historical consolidated financial statements and the related notes of GXT beginning on page F-3.

Summary Financial Data of Input/ Output

	Year Ended December 31,				Three Months Ended March 31,		
	2001	2002	2003	Pro Forma 2003	2003	2004	Pro Forma 2004
	(unaudited)				(unaudited)		
	(in thousands, except per share data)						
Statement of Operations Data⁽¹⁾ :							
Net sales	\$212,050	\$118,583	\$150,033	\$199,089	\$41,177	\$36,287	\$56,109
Cost of sales	139,478	101,018	122,192	156,888	32,720	24,026	37,511
Gross profit	72,572	17,565	27,841	42,201	8,457	12,261	18,598
Operating expenses (income):							
Research and development	29,442	28,756	18,696	18,696	5,518	4,075	4,075
Marketing and sales	11,657	11,218	12,566	17,031	2,811	3,299	4,636
General and administrative	19,695	19,760	16,753	23,883	4,065	4,693	7,141
Gain on sale of assets						(850)	(850)
Amortization of goodwill	3,873						
Impairment of long-lived assets		6,274	1,120	1,120	1,120		
Goodwill impairment		15,122					
Total operating expenses	64,667	81,130	49,135	60,730	13,514	11,217	15,002

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	Year Ended December 31,				Three Months Ended March 31,		
	2001	2002	2003	Pro Forma 2003	2003	2004	Pro Forma 2004
	(unaudited)				(unaudited)		
	(in thousands, except per share data)						
Income (loss) from operations	7,905	(63,565)	(21,294)	(18,529)	(5,057)	1,044	3,596
Interest expense	(695)	(3,124)	(4,087)	(4,498)	(1,345)	(1,496)	(1,622)
Interest income	4,685	2,280	1,903	1,903	591	469	469
Fair value adjustment and exchange of warrant obligation		3,252	1,757	1,757	871		
Impairment of investment			(2,059)	(2,059)			
Other income (expense)	574	(798)	976	976	249	16	16
Income (loss) before income taxes	12,469	(61,955)	(22,804)	(20,450)	(4,691)	33	2,459
Income tax expense	3,128	56,770	348	574	588	591	655
Net income (loss)	9,341	(118,725)					