ION GEOPHYSICAL CORP Form PRE 14A April 09, 2009

# UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549 SCHEDULE 14A

Proxy Statement Pursuant to Section 14(a) of the Securities Exchange Act of 1934 (Amendment No.

Filed by the Registrant b

Filed by a Party other than the Registrant o

Check the appropriate box:

- b Preliminary Proxy Statement
- o Confidential, for Use of the Commission Only (as permitted by Rule 14a-6(e)(2))
- o Definitive Proxy Statement
- o Definitive Additional Materials
- o Soliciting Material Pursuant to §240.14a-12

### ION GEOPHYSICAL CORPORATION

(Name of Registrant as Specified In Its Charter)

(Name of Person(s) Filing Proxy Statement, if other than the Registrant)

Payment of Filing Fee (Check the appropriate box):

- b No fee required.
- o Fee computed on table below per Exchange Act Rules 14a-6(i)(1) and 0-11.
  - (1) Title of each class of securities to which transaction applies:
  - (2) Aggregate number of securities to which transaction applies:
  - (3) Per unit price or other underlying value of transaction computed pursuant to Exchange Act Rule 0-11 (set forth the amount on which the filing fee is calculated and state how it was determined):
  - (4) Proposed maximum aggregate value of transaction:
  - (5) Total fee paid:
- o Fee paid previously with preliminary materials.
- o Check box if any part of the fee is offset as provided by Exchange Act Rule 0-11(a)(2) and identify the filing for which the offsetting fee was paid previously. Identify the previous filing by registration statement number, or the Form or Schedule and the date of its filing.

(1) Amount Previously Paid:

(2)	Form, Schedule or Registration Statement No.:
(3)	Filing Party:
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PRELIMINARY COPIES

### ION GEOPHYSICAL CORPORATION 2105 CityWest Boulevard, Suite 400 Houston, Texas 77042-2839 (281) 933-3339

### NOTICE OF ANNUAL MEETING OF STOCKHOLDERS To Be Held May 27, 2009

To ION s Stockholders:

The 2009 Annual Meeting of Stockholders of ION Geophysical Corporation will be held at 2105 CityWest Boulevard, Houston, Texas, on Wednesday, May 27, 2009, at 10:30 a.m., local time, for the following purposes:

- (1) Election of three directors, each for a three-year term expiring in 2012;
- (2) Approval of an employee equity replenishment program that will permit certain of ION s current employees to exchange certain outstanding stock options having exercise prices substantially above the current market price of ION common stock, and receive shares of ION common stock;
- (3) Approval of an amendment to ION s Restated Certificate of Incorporation to effect a reverse stock split of ION s common stock at any time prior to ION s 2010 Annual Meeting at one of three reverse split ratios (1-for-2, 1-for-5 or 1-for-10) as selected by the Board of Directors in its sole discretion;
- (4) Ratification of the appointment of Ernst & Young LLP as ION s independent registered public accounting firm (independent auditors) for 2009; and
- (5) Transaction of any other business that may properly come before the Annual Meeting or any adjournment or postponement of the meeting.

ION s Board of Directors has set April 2, 2009, as the record date for the meeting. This means that owners of ION common stock at the close of business on that date are entitled to receive this notice of meeting and vote at the meeting and any adjournments or postponements of the meeting.

ION will make available a list of stockholders of record as of the record date for inspection during normal business hours from 9:00 a.m. to 5:00 p.m., local time, from May 16, 2009 through May 27, 2009, at ION s principal place of business, located at 2105 CityWest Boulevard, Suite 400, Houston, Texas 77042-2839. This list will also be available at the meeting. For your reference, directions to the meeting location are included in this proxy statement.

Your vote is very important. Whether you own one share or many, your prompt cooperation in voting your proxy is greatly appreciated. Whether or not you plan to attend the meeting, please sign, date and return your enclosed proxy card as soon as possible so that your shares can be voted at the meeting.

By Authorization of the Board of Directors,

David L. Roland Senior Vice President, General Counsel and Corporate Secretary

April 23, 2009 Houston, Texas

### PRELIMINARY COPIES

Important Notice Regarding the Availability of Proxy Materials
For the Annual Stockholders Meeting to be held on May 27, 2009
The proxy statement, proxy card and our 2008 annual report to stockholders
are available at www.iongeo.com under Investor Relations Investor Materials Stockholders Meeting.
The Annual Meeting of Stockholders of ION Geophysical Corporation will be held on May 27, 2009, at 2105
CityWest Boulevard, Houston, Texas, beginning at 10:30 a.m., local time.

The matters intended to be acted upon are:

- 1. To elect three directors to our Board of Directors, each to serve for a three-year term;
- 2. To approve an employee equity replenishment program (the Replenishment Program ) that will permit certain of our current employees to exchange certain outstanding stock options having exercise prices substantially above the current market price of our common stock, and receive shares of our common stock;
- 3. To approve an amendment to our Restated Certificate of Incorporation to effect a reverse stock split of our common stock at any time prior to our 2010 Annual Meeting at one of three reverse split ratios (1-for-2, 1-for-5 or 1-for-10) as selected by the Board of Directors in its sole discretion (the Reverse Stock Split );
- 4. To ratify the appointment of Ernst & Young LLP as our independent registered public accounting firm (independent auditors) for 2009; and
- 5. To consider any other business that may properly come before the annual meeting, or any postponement or adjournment of the meeting.

The Board of Directors recommends voting in favor of the nominees listed in the proxy statement, the approval of the Replenishment Program, the approval of the Reverse Stock Split and the ratification of the appointment of Ernst & Young LLP.

The following proxy materials are being made available at the website location specified above:

- 1. The proxy statement for the 2009 Annual Meeting of Stockholders;
- 2. The 2008 annual report to stockholders; and
- 3. The form of proxy card being distributed to stockholders in connection with the 2009 Annual Meeting of Stockholders.

If your bank or broker is making available to you voting by telephone or the Internet, it will enclose instructions with the proxy statement to allow you to vote your shares by one of those methods, along with control/identification numbers to authenticate your identity and confirm that your voting instructions have been properly recorded.

Directions to the annual meeting are also provided in the proxy statement under *About the Meeting Where will the Annual Meeting be held?* beginning on page 3.

If the form of proxy is completed, signed and returned, the shares represented by the proxy will be voted at the meeting. Delivery of the proxy does not affect your right to attend the meeting. However, if your shares are held in the name of a bank, broker or other holder of record, you must obtain a proxy from the holder of record, executed in your favor, to be able to vote at the meeting. Otherwise, your shares will be voted in the manner in which you instructed the record holder of your shares.

PRELIMINARY COPIES

### ION GEOPHYSICAL CORPORATION 2105 CityWest Boulevard, Suite 400 Houston, Texas 77042-2839 (281) 933-3339

April 23, 2009

## PROXY STATEMENT FOR ANNUAL MEETING OF STOCKHOLDERS To Be Held May 27, 2009

Our Board of Directors is furnishing you this proxy statement to solicit proxies on its behalf to be voted at the 2009 Annual Meeting of Stockholders of ION Geophysical Corporation ( ION ). The meeting will be held at 2105 CityWest Boulevard, Houston, Texas, on May 27, 2009, at 10:30 a.m., local time. The proxies also may be voted at any adjournments or postponements of the meeting.

The mailing address of our principal executive offices is 2105 CityWest Boulevard, Suite 400, Houston, Texas 77042-2839. We are mailing the proxy materials to our stockholders beginning on or about April 23, 2009.

All properly completed and returned proxies for the annual meeting will be voted at the meeting in accordance with the directions given in the proxy, unless the proxy is revoked before the meeting.

Only owners of record of our shares of common stock on April 2, 2009, are entitled to vote at the meeting, or at adjournments or postponements of the meeting. Each owner of common stock on the record date is entitled to one vote for each share of common stock held. On April 2, 2009, there were 100,600,792 shares of common stock issued and outstanding.

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When used in this proxy statement, ION Geophysical, ION, Company, we, our, ours and us refer to IO Geophysical Corporation and its consolidated subsidiaries, except where the context otherwise requires or as otherwise indicated.

### ABOUT THE MEETING

### What is a proxy?

A proxy is your legal designation of another person to vote the stock you own on your behalf. That other person is referred to as a proxy. Our Board of Directors has designated Robert P. Peebler and James M. Lapeyre, Jr. as proxies for the 2009 Annual Meeting of Stockholders. By completing and returning the enclosed proxy card, you are giving Mr. Peebler and Mr. Lapeyre the authority to vote your shares in the manner you indicate on your proxy card. *Who is soliciting my proxy?* 

Our Board of Directors is soliciting proxies on its behalf to be voted at the 2009 Annual Meeting. All costs of soliciting the proxies will be paid by ION. Copies of solicitation materials will be furnished to banks, brokers, nominees and other fiduciaries and custodians to forward to beneficial owners of ION s common stock held by such persons. ION will reimburse such persons for their reasonable out-of-pocket expenses in forwarding solicitation materials. In addition to solicitations by mail, some of ION s directors, officers and other employees, without extra compensation, might supplement this solicitation by telephone, personal interview or other communication. ION has also retained Georgeson Inc. to assist with the solicitation of proxies from banks, brokers, nominees and other holders, for a fixed fee of \$8,000 plus reasonable out-of-pocket expenses, which fees and expenses will be paid by ION. We may also ask our proxy solicitor to solicit proxies on our behalf by telephone for a fixed fee of \$5 per phone call and \$5 per telephone vote, plus reasonable expenses.

### What is a proxy statement?

A proxy statement is a document that the regulations of the Securities and Exchange Commission require us to give you when we ask you to sign a proxy card designating individuals as proxies to vote on your behalf.

What is the difference between a stockholder of record and a stockholder who holds stock in street name?

If your shares are registered directly in your name, you are a stockholder of record. If your shares are registered in the name of your broker or bank, you are a street name holder.

### What different methods can I use to vote?

Most stockholders have a choice of voting over the Internet, by telephone, or by using a traditional proxy card. Please check your proxy card or the information forwarded by your bank, broker or other holder of record to see which options are available to you.

- (a) **In Writing:** All stockholders can vote by written proxy card.
- (b) **By Telephone and Internet:** Street name holders may vote by telephone or the Internet if their bank or broker makes those methods available, in which case the bank or broker will enclose the instructions with the proxy statement. The telephone and Internet voting procedures, including the use of control numbers, are designed to authenticate stockholders identities, to allow stockholders to vote their shares, and to confirm that their instructions have been properly recorded.
- (c) **In Person:** All stockholders may vote in person at the meeting. If you are a street name holder who wishes to vote in person, you will need to ask your broker or bank for a legal proxy. You will need to bring the legal proxy with you to the meeting.

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### Where will the Annual Meeting be held?

ION s 2009 Annual Meeting of Stockholders will be held on the \$\mathbb{9}\$ Floor of 2105 CityWest Boulevard in Houston, Texas.

*Directions:* The site for the meeting is located on CityWest Boulevard off of Beltway 8, near the intersection of Beltway 8 and Briar Forest Drive. Traveling south on the Beltway 8 feeder road after Briar Forest Drive, turn right on Del Monte Drive. Enter Garage Entrance 3 on your immediate left. Advise the guard that you are attending the ION Annual Meeting. You may be required to show your driver s license or other photo identification. The guard will then direct you where to park in the visitors section of the parking garage. The guard can also direct you to 2105 CityWest Boulevard, which is directly south of the garage. Once in the building, check in with the security desk and then take the elevators to the 9<sup>th</sup> floor.

### Does my vote matter?

Yes! Corporations are required to obtain stockholder approval for the election of directors and other important matters. Stockholder participation is not a mere formality. Stockholder voting is essential for ION to continue to function. It is also important that you vote to assure that a quorum is obtained so that corporate business can be transacted at the meeting.

### What is the effect of not voting?

It depends on how ownership of your shares is registered. If you are a stockholder of record, your unvoted shares will not be represented at the meeting and will not count toward the quorum requirement. Assuming a quorum is obtained, your unvoted shares will not be treated as a vote for or against a proposal.

If you own your shares in street name, your broker or bank may represent your shares at the meeting for purposes of obtaining a quorum. As described in the answer to the question immediately following, in the absence of your voting instruction, your broker may or may not vote your shares.

### If I don t vote, will my broker vote for me?

If you own your shares in street name and you do not vote, your broker may vote your shares in its discretion on routine matters. With respect to non-routine matters, however, your broker may not vote your shares for you. Where a broker votes your shares on routine matters but cannot vote your shares on non-routine matters because he has not received any instructions from you regarding how to vote, the number of unvoted shares on those matters is reported as broker non-votes. These broker non-vote shares are counted toward the quorum requirement, but, generally speaking, they do not affect the determination of whether a matter is approved. See *How are abstentions and broker non-votes counted?* below. Except for the proposal to approve the Replenishment Program and the proposal to approve the Reverse Stock Split, we believe that the proposals set forth in this proxy statement are routine matters on which brokers will be permitted to vote your shares without instructions from you.

### What is the record date and what does it mean?

The record date for the 2009 Annual Meeting of Stockholders is April 2, 2009. The record date is established by the Board of Directors as required by Delaware law (the state in which we are incorporated). Owners of common stock at the close of business on the record date are entitled to receive notice of the meeting and vote at the meeting and any adjournments or postponements of the meeting.

### How can I revoke a proxy?

A stockholder can revoke a proxy by taking any one of the following three actions before it is voted at the meeting: (a) giving written notice to the Corporate Secretary of ION,

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- (b) delivering a later-dated proxy, or
- (c) voting in person at the meeting.

If you hold shares through a bank or broker, you must contact that bank or broker in order to revoke any prior voting instructions.

### What constitutes a quorum?

The presence, in person or by proxy, of the holders of a majority of the outstanding shares of common stock constitutes a quorum. We need a quorum of stockholders to hold a valid Annual Meeting. If you have signed and returned your proxy card, your shares will be counted toward the quorum. If a quorum is not present, the chairman may adjourn the meeting, without notice other than by announcement at the meeting, until the required quorum is present.

As of the record date, 100,600,792 shares of common stock were outstanding. Thus, the presence of the holders of common stock representing at least 50,300,397 shares will be required to establish a quorum.

### What are my voting choices when voting for director nominees, and what vote is needed to elect directors?

In voting on the election of three director nominees to serve until the 2012 Annual Meeting of Stockholders, stockholders may vote in one of the following ways:

- (a) in favor of all nominees,
- (b) withhold votes as to all nominees, or
- (c) withhold votes as to a specific nominee.

Directors will be elected by a plurality vote of holders of the shares of common stock present or represented by proxy at the meeting. This means that all director nominees must receive the highest number of votes cast in order to be re-elected as directors. Stockholders are not permitted to cumulate their votes in the election of directors.

The Board recommends a vote **FOR** all of the nominees.

### What are my voting choices when voting on the proposal to approve the Replenishment Program and what vote is needed to approve the proposal?

In voting to approve the Replenishment Program, stockholders may vote in one of the following ways:

- (a) in favor of the approval of the Replenishment Program,
- (b) against the approval of the Replenishment Program, or
- (c) abstain from voting on the approval of the Replenishment Program.

The proposal to approve the Replenishment Program will require the affirmative vote of a majority of the votes cast on the proposal by holders of common stock in person or represented by proxy at the meeting, so long as the total votes cast on the proposal exceed 50% of the shares of common stock outstanding.

The Board recommends a vote **FOR** this proposal.

What are my voting choices when voting on the proposal to approve the Reverse Stock Split and what vote is needed to approve the proposal?

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In voting to approve the Reverse Stock Split proposal, stockholders may vote in one of the following ways:

- (a) in favor of the Reverse Stock Split proposal,
- (b) against the Reverse Stock Split proposal, or
- (c) abstain from voting on the Reverse Stock Split proposal.

The proposal to approve the Reverse Stock Split will require the affirmative vote of holders of a majority of the shares of common stock outstanding as of the record date.

The Board recommends a vote **FOR** this proposal.

What are my voting choices when voting on the ratification of the appointment of Ernst & Young LLP as our independent registered public accounting firm or independent auditors and what vote is needed to ratify their appointment?

In voting to ratify the appointment of Ernst & Young LLP as independent auditors for 2009, stockholders may vote in one of the following ways:

- (a) in favor of ratification,
- (b) against ratification, or
- (c) abstain from voting on ratification.

The proposal to ratify the appointment of Ernst & Young LLP will require the affirmative vote of a majority of the votes cast by holders of common stock in person or represented by proxy at the meeting.

The Board recommends a vote **FOR** this proposal.

### Will any other business be transacted at the meeting? If so, how will my proxy be voted?

We do not know of any business to be transacted at the Annual Meeting other than those matters described in this proxy statement. We believe that the periods specified in ION s Bylaws for submitting proposals to be considered at the meeting have passed and no proposals were submitted. However, should any other matters properly come before the meeting, and any adjournments or postponements of the meeting, shares with respect to which voting authority has been granted to the proxies will be voted by the proxies in accordance with their judgment.

### What if a stockholder does not specify a choice for a matter when returning a proxy?

Stockholders should specify their choice for each matter on the enclosed form of proxy. If no instructions are given, proxies that are signed and returned will be voted **FOR** the election of all director nominees, **FOR** the approval of the Replenishment Program, **FOR** the approval of the Reverse Stock Split and **FOR** the proposal to ratify the appointment of Ernst & Young LLP as independent auditors for 2009.

### How are abstentions and broker non-votes counted?

A properly executed proxy card marked withhold with respect to the election of one or more directors will not be voted with respect to the director or directors indicated, although it will be counted for purposes of determining whether there is a quorum. Any shares not voted (whether by broker non-vote or otherwise) will have no effect on the election of directors.

An abstention will have the same legal effect as a vote against the proposal to approve the Replenishment Program because it will represent a share present in person or represented by proxy at the meeting and a vote cast on the

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proposal, thereby increasing the number of affirmative votes required to approve the proposal. Broker non-votes will have no effect on the outcome of this proposal, so long as the total votes cast on the proposal represent more than 50% of our outstanding shares of common stock entitled to vote.

An abstention will have the same legal effect as a vote against the Reverse Stock Split proposal because it will not represent an affirmative vote in favor of this proposal. Broker non-votes will have no effect on the outcome of this proposal, since broker non-votes are not counted as a vote cast on the proposal.

An abstention will have the same legal effect as a vote against the proposal to ratify the appointment of the independent auditors, because it will represent a share present in person or represented by proxy at the meeting and a vote cast on the proposal, thereby increasing the number of affirmative votes required to approve the proposal. Broker non-votes will have no effect on the proposal to ratify the appointment of the independent auditors.

### What is the deadline for submitting proposals to be considered for inclusion in the 2010 proxy statement?

Stockholder proposals requested to be included in ION s 2010 proxy statement must be received by ION not later than December 24, 2009. Proposals should be directed to David L. Roland, Senior Vice President, General Counsel and Corporate Secretary, ION Geophysical Corporation, 2105 CityWest Boulevard, Suite 400, Houston, Texas 77042-2839.

### What is the deadline for submitting a nomination for director of ION for consideration at the Annual Meeting of Stockholders in 2010?

A proper director nomination may be considered at ION s 2010 Annual Meeting of Stockholders only if the proposal for nomination is received by ION not later than December 24, 2009. All nominations should be directed to David L. Roland, Senior Vice President, General Counsel and Corporate Secretary, ION Geophysical Corporation, 2105 CityWest Boulevard, Suite 400, Houston, Texas 77042-2839.

### Will I have electronic access to the proxy materials and Annual Report?

The notice of Annual Meeting and Proxy Statement and the 2008 Annual Report to Stockholders are also posted on ION s Internet website in the Investor Relations section at www.iongeo.com.

### How can I obtain a copy of ION s Annual Report on Form 10-K?

A copy of our 2008 Annual Report on Form 10-K is enclosed with our annual report to stockholders. You may obtain an additional copy of our 2008 Form 10-K at no charge by sending a written request to David L. Roland, Senior Vice President, General Counsel and Corporate Secretary, ION Geophysical Corporation, 2105 CityWest Boulevard, Suite 400, Houston, Texas 77042-2839. Our Form 10-K is also available (i) through the Investor Relations section of our website at <a href="https://www.sec.gov">www.iongeo.com</a> and (ii) with exhibits on the SEC s website at <a href="https://www.sec.gov">https://www.sec.gov</a>.

Please note that the contents of these and any other websites referenced in this proxy statement are not incorporated into this filing. Further, our references to the URLs for these and other websites listed in this proxy statement are intended to be inactive textual references only.

### ITEM 1 ELECTION OF DIRECTORS

Our Board of Directors consists of nine members. The Board is divided into three classes. Members of each class are elected for three-year terms and until their respective successors are duly elected and qualified, unless the director dies, resigns, retires, is disqualified or is removed. Our stockholders elect the directors in a designated class annually. Directors in Class I, which is the class of directors to be elected at this meeting, will serve on the Board until our Annual Meeting in 2012.

The current Class I directors are Theodore H. Elliott, Jr., James M. Lapeyre, Jr. and G. Thomas Marsh, and their terms will expire at the 2009 Annual Meeting. At its meeting on February 13, 2009, the Board approved the recommendation of the Governance Committee that Messrs. Elliott, Lapeyre and Marsh be nominated to stand for

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reelection at the Annual Meeting to hold office until our 2012 Annual Meeting and until their successors are elected and qualified.

We have no reason to believe that any of the nominees will be unable or unwilling to serve if elected. However, if any nominee should become unable or unwilling to serve for any reason, proxies may be voted for another person nominated as a substitute by the Board of Directors, or the Board of Directors may reduce the number of Directors.

The Board of Directors recommends a vote FOR the election of Theodore H. Elliott, Jr., James M. Lapeyre, Jr. and G. Thomas Marsh.

Class I Director Nominees For Re-Election For Term Expiring In 2012

### THEODORE H. ELLIOTT, JR.

Director since 1987 Age 73

Mr. Elliott joined our Board of Directors in 1987. Since 1981, he has been in the venture capital business as the Chairman of Prime Capital Management Co., Inc., a Connecticut-based venture capital company, and as a private investor. Prior to Prime Capital Management, Mr. Elliott was Vice President of General Electric s venture capital subsidiary. Prior to General Electric, Mr. Elliott was head of investment banking at Clark, Dodge & Co. Inc. He also serves on the Board of Directors and the Compensation and Audit Committees of National Interstate, a specialty property and casualty insurance company based in Ohio. Mr. Elliott is a member of the Audit Committee of our Board of Directors. He is a Chartered Financial Analyst (CFA) and has a Bachelor of Art degree and a Master of Business Administration degree from Harvard University and a Juris Doctorate degree from New York University.

JAMES M. LAPEYRE, JR.

Director since 1998

Age 56

Mr. Lapeyre has been Chairman of our Board of Directors since 1999 and a Director since 1998. Mr. Lapeyre has been President of Laitram L.L.C., a privately-owned, New Orleans-based manufacturer of food processing equipment and modular conveyor belts, and its predecessors since 1989. Mr. Lapeyre joined our Board of Directors when we bought the DigiCOURSE marine positioning products business from Laitram in 1998. Mr. Lapeyre is Chairman of the Governance Committee and a member of the Compensation Committee of our Board of Directors. He holds a Bachelor of Art degree in History from the University of Texas and Master of Business Administration and Juris Doctorate degrees from Tulane University.

G. THOMAS MARSH

Director since 2008

Age 65

Mr. Marsh joined our Board of Directors in December 2008. In 2006, Mr. Marsh retired as Executive Vice President of Lockheed Martin Space Systems Company, a subsidiary of Lockheed Martin Corporation. Lockheed Martin Space Systems designs, develops, tests, manufactures and operates advanced-technology systems, including human space flight systems, satellites and instruments, space observatories and interplanetary spacecraft, laser radar, fleet ballistic missiles, and missile defense systems. From 1969 until its merger in 1995 to form Lockheed Martin Corporation, Mr. Marsh worked at Martin Marietta Corporation, most recently in the position of President, Manned Space Systems. After 1995, he held positions of increasing responsibility within Lockheed Martin Corporation, including serving as President and General Manager of the Missiles and Space Operations business unit from 2002 until his appointment as Executive Vice President of Lockheed Martin Space Systems in 2003. Mr. Marsh holds a Bachelor of Science degree in Electrical Engineering from the University of New Mexico, a Master of Business Administration degree from the University of Colorado, and attended the Massachusetts Institute of Technology s Sloan School of Management.

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Class II Incumbent Directors Term Expiring In 2010

FRANKLIN MYERS

Director since 2001

Mr. Myers joined our Board of Directors in 2001. He is currently the Senior Advisor to Cameron International Corporation, an international manufacturer of oil and gas flow control equipment. Until March 2008, Mr. Myers was the Senior Vice President and Chief Financial Officer of Cameron. Mr. Myers became Senior Vice President of Cameron in 1995, and served as General Counsel and Corporate Secretary of Cameron from 1995 to 1999, as well as President of the Cooper Energy Services Division from 1998 until 2001. Prior to joining Cameron, he was Senior Vice President and General Counsel of Baker Hughes Incorporated, an oilfield services and equipment provider, and an attorney and partner with the law firm of Fulbright & Jaworski L.L.P. in Houston, Texas. Mr. Myers also currently serves on the Board of Directors of Comfort Systems, Inc., a NYSE-listed provider of heating, ventilation and air conditioning services. Mr. Myers is Chairman of the Compensation Committee, co-Chairman of the Finance Committee and a member of the Governance Committee of our Board of Directors. He holds a Bachelor of Science degree in Industrial Engineering from Mississippi State University and a Juris Doctorate degree with Honors from the University of Mississippi.

### BRUCE S. APPELBAUM, PhD

Director since 2003 Age 61

Dr. Appelbaum joined our Board of Directors in 2003. He is currently the Chairman of Mosaic Natural Resources Ltd., an oil and gas exploration and production company focusing on opportunities in the North Sea. Prior to founding Mosaic, Dr. Appelbaum was President of Worldwide Exploration and New Ventures for Texaco, Inc. and a Vice President of Texaco. Dr. Appelbaum joined Texaco in 1990 as Division Manager of Texaco U.S.A. s offshore exploration division and was elected an officer of Texaco in 2000. Dr. Appelbaum is also a Trustee of the American Geological Institute Foundation and serves on the Advisory Board to the Department of Oceanography at Texas A&M University. He previously served on the Advisory Board of the School of Earth Sciences at Stanford University. Dr. Appelbaum also currently serves as a Director of CQS Rig Finance Fund Limited, an AIM- and CISX-listed closed-end investment company that invests in secured bonds issued to finance the construction of offshore oil and gas exploration and production infrastructure. Dr. Appelbaum is a member of the Audit Committee of our Board of Directors. He holds a Bachelor of Science degree in Geology from the State University of New York Buffalo and Master of Science and PhD degrees in Geological Oceanography from Texas A&M University.

### S. JAMES NELSON, JR.

Director since 2004

Age 66

Mr. Nelson joined our Board of Directors in 2004. In 2004, Mr. Nelson retired from Cal Dive International, Inc. (now named Helix Energy Solutions Group, Inc.), a marine contractor and operator of offshore oil and gas properties and production facilities, where he was a founding shareholder, Chief Financial Officer (prior to 2000), Vice Chairman (from 2000 to 2004) and a Director (from 1990 to 2004). From 1985 to 1988, Mr. Nelson was the Senior Vice President and Chief Financial Officer of Diversified Energies, Inc., a NYSE-traded company with \$1 billion in annual revenues and the former parent company of Cal Dive. From 1980 to 1985, Mr. Nelson served as Chief Financial Officer of Apache Corporation, an oil and gas exploration and production company. From 1966 to 1980, Mr. Nelson was employed with Arthur Andersen & Co. where, from 1976 to 1980, he was a partner serving on the firm s worldwide oil and gas industry team. Mr. Nelson also currently serves on the Board of Directors and Audit Committee of Oil States International, Inc. (a NYSE-listed diversified oilfield services company) and the Board of Directors and Audit and Compensation Committees of W&T Offshore, Inc. (a NYSE-listed oil and natural gas exploration and production company). From 2005 until the company s sale in 2008, he served as a member of the Board of Directors and Audit and Compensation Committees of Quintana Maritime, Ltd., a provider of dry bulk cargo shipping services based in Athens, Greece. Mr. Nelson, who is also a Certified Public Accountant, is Chairman of the Audit Committee and co-Chairman of the Finance Committee of our Board of Directors. He holds a Bachelor of

Science degree in Accounting from Holy Cross College and a Master of Business Administration degree from Harvard University.

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Class III Incumbent Directors Term Expiring In 2011

ROBERT P. PEEBLER

Director since 1999

Mr. Peebler has been our Chief Executive Officer since April 2003 and a member of our Board of Directors since 1999. From 2003 until December 2008, Mr. Peebler also served as our President. Prior to joining ION on a full-time basis, Mr. Peebler was the founder, President and Chief Executive Officer of Energy Virtual Partners, an asset development and management company for oil and gas properties. Prior to founding Energy Virtual Partners in April 2001, Mr. Peebler was Vice President of e-Business Strategy and Ventures of the Halliburton Company, a provider of products and services to the petroleum and energy industries. Mr. Peebler joined Halliburton in 1996 when Halliburton acquired Landmark Graphics Corporation, a provider of workstation-based software for oil and gas exploration and production, where he had served as CEO since 1992. Mr. Peebler began his career with Schlumberger, a global oilfield and information services company, in wireline operations and spent 17 years with Schlumberger in various positions, including as head of U.S. wireline operations and executive in charge of strategic marketing for the corporate energy services group. Mr. Peebler is a member of the Finance Committee of our Board of Directors. He holds a Bachelor of Science degree in Electrical Engineering from the University of Kansas.

JOHN N. SEITZ

Director since 2003
Age 57

Mr. Seitz joined our Board of Directors in 2003. Mr. Seitz is a founder and Vice Chairman of the Board of Endeavour International Corporation, an exploration and development company focused on the North Sea. From 2003 until 2006, Mr. Seitz served as co-CEO of Endeavour. From 1977 to 2003, Mr. Seitz held positions of increasing responsibility at Anadarko Petroleum Company, serving most recently as a Director and as President and Chief Executive Officer. Mr. Seitz is a Trustee of the American Geological Institute Foundation and serves on the Board of Managers of Constellation Energy Partners LLC, a company focused on the acquisition, development and exploitation of oil and natural gas properties and related midstream assets. He is a member of the Compensation and Governance Committees of our Board of Directors. Mr. Seitz holds a Bachelor of Science degree in Geology from the University of Pittsburgh, a Master of Science degree in Geology from Rensselaer Institute and is a Certified Professional Geoscientist in Texas. He also completed the Advanced Management Program at the Wharton School of Business.

### NICHOLAS G. VLAHAKIS

Director since 2008

Age 60

Mr. Vlahakis joined our Board of Directors in December 2008. In 2005, Mr. Vlahakis retired from Alliant Techsystems Inc. (ATK), an Edina, Minnesota-based supplier of aerospace and defense technologies, after serving as Executive Vice President and Chief Operating Officer since 2004 and Senior Vice President and Chief Operating Officer from 2002 to 2004. Prior to 2002, Mr. Vlahakis served as Alliant's Group Vice President, Defense and Group Vice President, Conventional Munitions. Commencing in 1982, Mr. Vlahakis worked for Hercules Aerospace Company, a supplier of aerospace products, most recently in the position of Vice President and General Manager, Tactical Propulsion Facility. Mr. Vlahakis joined Alliant in 1995 when Alliant acquired Hercules. Mr. Vlahakis holds a Bachelor of Science degree in Mechanical Engineering from Northwestern University, a Master of Science degree in Mechanical Engineering from Carnegie-Mellon University and a Master of Business Administration degree from the University of Utah.

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### **Ownership of Equity Securities of ION**

Except as otherwise set forth below, the following table sets forth information as of February 20, 2009, with respect to the number of shares of common stock owned by (i) each person known by us to be a beneficial owner of more than 5% of our common stock, (ii) each of our directors, (iii) each of our executive officers named in the 2008 Summary Compensation Table included in this proxy statement and (iv) all of our directors and executive officers as a group. Except where information was otherwise known by us, we have relied solely upon filings of Schedules 13D and 13G to determine the number of shares of our common stock owned by each person known to us to be the beneficial owner of more than 5% of our common stock as of such date.

				Percent of
	Common	Rights to	Restricted	Common
Name of Owner	Stock(1)	Acquire(2)	Stock(3)	Stock(4)
James M. Lapeyre, Jr.(5)	9,381,730	90,000		9.4%
Fletcher Asset Management, Inc.(6)		9,669,434		8.8%
Laitram, L.L.C.(7)	7,905,344			7.9%
Barclays Global Investors, NA and related				
entities(8)	6,209,277			6.2%
Robert P. Peebler	148,315	1,325,000	101,432	1.5%
Bruce S. Appelbaum, PhD(9)	32,471	80,000		*
Theodore H. Elliott, Jr.(10)	71,452	70,000		*
Franklin Myers	55,881	55,000		*
John N. Seitz	25,895	80,000		*
S. James Nelson, Jr.	16,000	70,000		*
G. Thomas Marsh				*
Nicholas G. Vlahakis	50,000			*
James R. Hollis(11)	36,910	166,250	39,999	*
R. Brian Hanson	59,137	62,500	50,000	*
Charles J. Ledet(12)	25,109		15,998	*
Teng Beng Koid	45,472	120,000	43,333	*
All directors and executive officers as a group				
(16 Persons)	10,019,107	2,450,500	308,259	12.4%

<sup>\*</sup> Less than 1%

(1) Represents
shares for which
the named
person (a) has
sole voting and
investment
power or (b) has
shared voting
and investment
power.
Excluded are
shares that
(i) are unvested
restricted stock

holdings or (ii) may be acquired through stock option or warrant exercises.

### (2) Represents

shares of common stock that may be acquired through conversion of our outstanding

shares of

Series D-1

Cumulative

Convertible

Preferred Stock,

Series D-2

Cumulative

Convertible

Preferred Stock

and Series D-3

Cumulative

Convertible

Preferred Stock

beneficially

owned by

Fletcher Asset

Management,

Inc. and

exercise of

stock options in

the case of our

officers and

directors, that

are currently

convertible or

exercisable or

will be

convertible or

exercisable on

or before

April 21, 2009.

(3) Represents unvested shares subject to a

vesting schedule, forfeiture risk and other restrictions. Although these shares are subject to forfeiture, the holder has the right to vote the shares and receive dividends until they are forfeited.

- (4) Assumes shares that such person has rights to acquire presently and on or before April 21, 2009 are outstanding.
- (5) These shares of common stock include (i) 6,450 shares over which Mr. Lapeyre holds joint voting power and investment control with his wife; and (ii) 30,000 shares previously owned by Mr. Lapeyre s wife and transferred by Mr. Lapeyre s wife into Mr. Lapeyre s account, in which Mr. Lapeyre

disclaims any

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interest. These shares of common stock also include 309,330 shares that Mr. Lapeyre holds as a custodian or trustee for the

beneficial

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benefit of his

children,

7,905,344

shares owned by

Laitram, and

10,500 shares

that Mr.

Lapeyre holds

as a co-trustee

with his wife for

the benefit of

his children, in

all of which

Mr. Lapeyre

disclaims any

beneficial

interest. Please

read note 7

below.

Mr. Lapeyre has

sole voting

power over only

1,120,106 of

these shares of

common stock.

### (6) Fletcher Asset

Management,

Inc. has filed its

Schedule 13G

(and

amendments

thereto) on

behalf of itself,

Fletcher

International

Ltd. and

Alphonse

Fletcher, Jr., the

Chairman and

Chief Executive

Officer of

Fletcher Asset

Management,

Inc. The address

for Fletcher

Asset

Management,

Inc. is 48 Wall

Street, 5th Floor, New York, New York 10005. Fletcher International Ltd., an affiliate of Fletcher Asset Management, holds shares of our Series D-1 Cumulative Convertible Preferred Stock, Series D-2 Cumulative Convertible Preferred Stock and Series D-3 Cumulative Convertible Preferred Stock, which are convertible into shares of our common stock. The number of shares of common stock

(7) The address for Laitram, L.L.C. is 220 Laitram Lane, Harahan, Louisiana 70123.

Mr. Lapeyre is the President and chief

that may be acquired upon conversion is subject to adjustment in certain events.

executive

officer of

officer of

Laitram. Please

read note 5

above.

Mr. Lapeyre

disclaims beneficial ownership of any shares held by Laitram.

(8) The address for

Barclays Global

Investors, NA is

400 Howard

Street, San

Francisco,

California

94105.

According to a

statement on

Schedule 13G

dated

February 5,

2009 and filed

with the SEC,

Barclays Global

Investors, NA

and the other

entities

described in this

footnote

beneficially own

6,209,277

shares. The total

in the table

reflects the

combined

ownership of

various Barclays

entities. The

Schedule 13G

indicates the

following

ownership

interests: (i)

Barclays Global

Investors, NA is

the beneficial

owner of

2,155,910

shares (2.17%),

with sole voting

power with

respect to

1,883,776

shares and sole

dispositive

power with

respect to

2,155,910

shares;

(ii) Barclays

Global Fund

Advisors,

located at the

above address,

is the beneficial

owner of

3,994,606

shares (4.02%),

with sole voting

power with

respect to

2,975,883

shares and sole

dispositive

power with

respect to

3,994,606

shares and

(iii) Barclays

Global

Investors, Ltd.,

located at

Murray House,

1 Royal Mint

Court, London,

England EC3N

4HH, is the

beneficial owner

of 58,761 shares

(0.06%), with

sole voting

power with

respect to 1,845

shares and sole

dispositive

power with

respect to

58,761 shares.

The

Schedule 13G

also lists the

following

entities that do

not beneficially

own any shares:

(w) Barclays

Global Investors

Japan Limited,

located at Ebisu

Prime Square

Tower, 8th

Floor, 1-1-39

Hiroo

Shibuya-Ku,

Tokyo 150-8402

Japan;

(x) Barclays

**Global Investors** 

Canada Limited,

located at

Brookfield

Place, 161 Bay

Street,

Suite 2500, P.O.

Box 614,

Toronto,

Canada, Ontario

M5J 2S1;

(y) Barclays

**Global Investors** 

Australia

Limited, located

at Level 43,

Grosvenor

Place, 225

George Street,

P.O. Box N43,

Sydney,

Australia NSW

1220 and

(z) Barclays

**Global Investors** 

(Deutschland)

AG, located at

Apianstrasse 6,

D-85774,

Unterfohring,

Germany. The

calculation of

the percentage

of stock owned

by Barclays

Global

Investors, NA

and the other

entities is based on the percentages reported in the Schedule 13G.

- (9) The shares of common stock include 32,471 shares over which Dr. Appelbaum holds joint voting power and investment control with his wife.
- (10) These shares of common stock exclude 4,000 shares owned by Mr. Elliott s wife, in which Mr. Elliott disclaims any beneficial interest.
- (11) These shares of common stock exclude 7,731 shares owned by Mr. Hollis wife, in which Mr. Hollis disclaims any beneficial interest.
- (12) Mr. Ledet s employment with ION ended on December 1, 2008.

### Section 16(a) Beneficial Ownership Reporting Compliance

Section 16(a) of the Securities Exchange Act of 1934, as amended (the Exchange Act ), requires directors and certain officers of ION, and persons who own more than 10% of ION s common stock, to file with the Securities and Exchange Commission (SEC) and the New York Stock Exchange (NYSE) initial statements of beneficial ownership on Form 3 and changes in such ownership on Forms 4 and 5. Based on our review of the copies of such reports, we believe

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that, with one exception, during 2008 our directors, executive officers and stockholders holding greater than 10% of our outstanding shares complied with all applicable filing requirements. A Form 4 for each of Mr. Sam K. Smith (who retired from our Board of Directors in August 2008) and Messrs. Lapeyre, Appelbaum and Myers reflecting a grant of ION stock on May 27, 2008 in lieu of payment of Board retainer fees was filed on July 29, 2008, due to an administrative error.

### **Board of Directors and Corporate Governance**

Governance Initiatives. We maintain a corporate governance program for the purpose of defining responsibilities, setting standards of professional and personal conduct and promoting compliance with these responsibilities and standards. We review our governance practices and update them, as appropriate, based upon Delaware law, rules and listing standards of the NYSE, SEC regulations, and practices recommended by our outside advisors.

Some of our corporate governance initiatives include the following:

Our Board has affirmatively determined that eight of our nine directors meet the NYSE standard for independence. Robert P. Peebler is not independent under applicable standards because he is our current Chief Executive Officer and an employee of ION.

Our Audit Committee has at least one member who qualifies as a financial expert in accordance with Section 407 of the Sarbanes-Oxley Act of 2002.

All members of our Audit Committee, Governance Committee and Compensation Committee are independent.

Our independent directors meet in executive session at each regularly scheduled Board meeting without the presence of management. Each of our committees meets in executive session at each regularly scheduled meeting without the presence of management, and our Audit Committee meets in private session with representatives of our independent registered public accounting firm at least quarterly without the presence of management.

Every year, our management employees and senior finance and accounting employees affirm their compliance with our Code of Ethics and other principal compliance policies. New employees sign a written certification of compliance with these policies upon commencing employment.

The Board has adopted written Corporate Governance Guidelines to assist its members in fulfilling their responsibilities.

Board members are required to offer their resignation from the Board if they retire or materially change the position they held when they began serving as a director on the Board.

We comply with and operate in a manner consistent with regulations prohibiting loans to our directors and executive officers.

Members of our Disclosure Committee, consisting of management employees and senior finance and accounting employees, review all quarterly and annual reports before filing with the SEC.

We have a hotline and website available to all employees to report ethics and compliance concerns, anonymously if preferred, including concerns related to accounting, accounting controls, financial reporting and auditing matters. The hotline and website are administered and monitored by an independent hotline monitoring company. The Board has adopted a policy and procedures for the receipt, retention and treatment of complaints and employee concerns received through the hotline or website. The policy is available on our website at <a href="http://www.iongeo.com/content/released/Hotline\_Policy-ION-Nov\_5\_2007.pdf">http://www.iongeo.com/content/released/Hotline\_Policy-ION-Nov\_5\_2007.pdf</a>.

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On an annual basis, each director and named executive officer is obligated to complete a questionnaire that requires disclosure of any transactions with ION in which the director or executive officer, or any member of his or her immediate family, has a direct or indirect material interest.

We have included as Exhibits 31.1 and 31.2 to our Annual Report on Form 10-K for the fiscal year ended December 31, 2008, filed with the SEC, certificates of our Chief Executive Officer and Chief Financial Officer, respectively, certifying as to the quality of our public disclosure. In addition, in 2008, we submitted to the NYSE a certificate of our Chief Executive Officer certifying that he is not aware of any violation by ION of the NYSE corporate governance listing standards.

Code of Ethics. We require all employees to adhere to our Code of Ethics in addressing legal and ethical issues encountered in conducting their work. The Code of Ethics requires that our employees avoid conflicts of interest, comply with all laws and other legal requirements, conduct business in an honest and ethical manner, promote full and accurate financial reporting, and otherwise act with integrity and in ION s best interest. Our Code of Ethics applies to our directors and all employees, including our Chief Executive Officer and senior financial officers (our Chief Financial Officer, Controller, Treasurer and all other financial officers and executives).

We have made our Code of Ethics, corporate governance guidelines, charters for the committees of our Board and other information that may be of interest to investors available on the Investor Relations section of our website at <a href="http://www.iongeo.com/Investor\_Relations/">http://www.iongeo.com/Investor\_Relations/</a> Corporate\_Governance/. Copies of this information may also be obtained by writing to us at ION Geophysical Corporation, Attention: Senior Vice President, General Counsel and Corporate Secretary, 2105 CityWest Boulevard, Suite 400, Houston, Texas 77042-2839.

*Presiding Non-Management Director*. Under NYSE corporate governance listing standards, James M. Lapeyre, Jr. has been designated as the presiding non-management director to lead non-management directors meetings of the Board. Our non-management directors meet at regularly scheduled executive sessions without management, over which Mr. Lapeyre presides.

Communications to Board and Presiding Non-Management Director. Stockholders and other interested parties may communicate with the Board and our presiding non-management director or non-management independent directors as a group by writing to Chairman of the Board (if the intended recipient is the Board) or Presiding Non-management Director (if the intended recipient is the presiding non-management director, or the non-management directors as a whole), c/o Corporate Secretary, ION Geophysical Corporation, 2105 CityWest Boulevard, Suite 400, Houston, Texas 77042-2839. Inquiries sent by mail will be reviewed by our Corporate Secretary and, if they pertain to the functions of the Board or Board committees or if the Corporate Secretary otherwise determines that they should be brought to the intended recipient s attention, they will be forwarded to the intended recipient. Concerns relating to accounting, internal controls, auditing or compliance matters will be brought to the attention of our Audit Committee and handled in accordance with procedures established by the Audit Committee.

Our Corporate Secretary s review of these communications will be performed with a view that the integrity of this process be preserved. For example, items that are unrelated to the duties and responsibilities of the Board, such as personal employee complaints, product inquiries, new product suggestions, resumes and other forms of job inquiries, surveys, business solicitations or advertisements, will not be forwarded to those individuals. In addition, material that is considered to be hostile, threatening, illegal or similarly unsuitable will not be forwarded to them. Except for these types of items, the Corporate Secretary will promptly forward written communications to the intended recipient. Within the above guidelines, the independent directors have granted the Corporate Secretary discretion to decide what correspondence should be shared with ION management and independent directors.

2008 Meetings of the Board and Stockholders. During 2008, the Board of Directors held 14 meetings and the four standing committees of the Board of Directors held a total of 20 meetings. Overall, the rate of attendance by each director at such meetings exceeded 96%. Each director attended at least 75% of the aggregate number of meetings of the Board of Directors and the committees on which he served during 2008. We do not require our Board members to attend our Annual Meeting of Stockholders; however, three of our directors attended our 2008 Annual Meeting held in May 2008.

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*Independence*. In determining independence, each year the Board determines whether directors have any material relationship with ION. When assessing the materiality of a director's relationship with ION, the Board considers all relevant facts and circumstances, not merely from the director s standpoint, but from that of the persons or organizations with which the director has an affiliation, and the frequency or regularity of the services, whether the services are being carried out at arm s length in the ordinary course of business and whether the services are being provided substantially on the same terms to ION as those prevailing at the time from unrelated parties for comparable transactions. Material relationships can include commercial, banking, industrial, consulting, legal, accounting, charitable and familial relationships. Factors that the Board may consider when determining independence for purposes of this determination include (1) not being a current employee of ION or having been employed by ION within the last three years; (2) not having an immediate family member who is, or who has been within the last three years, an executive officer of ION; (3) not personally receiving or having an immediate family member who has received, during any 12-month period within the last three years, more than \$120,000 per year in direct compensation from ION other than director and committee fees; (4) not being employed or having an immediate family member employed within the last three years as an executive officer of another company of which any current executive officer of ION serves or has served, at the same time, on that company s compensation committee; (5) not being an employee of or a current partner of, or having an immediate family member who is a current partner of, a firm that is ION s internal or external auditor; (6) not having an immediate family member who is a current employee of such an audit firm who personally works on ION s audit; (7) not being or having an immediate family member who was within the last three years a partner or employee of such an audit firm and who personally worked on ION s audit within that time; (8) not being a current employee, or having an immediate family member who is a current executive officer, of a company that has made payments to, or received payments from, ION for property or services in an amount that, in any of the last three fiscal years, exceeds the greater of \$1 million or 2% of the other company s consolidated gross revenues; or (9) not being an executive officer of a charitable organization to which, within the preceding three years, ION has made charitable contributions in any single fiscal year that has exceeded the greater of \$1 million or 2% of such organization s consolidated gross revenues.

Our Board has affirmatively determined that none of our non-employee directors James M. Lapeyre, Jr., Bruce S. Appelbaum, Theodore H. Elliott, Jr., G. Thomas Marsh, Franklin Myers, S. James Nelson, Jr., John N. Seitz and Nicholas G. Vlahakis has a material relationship with ION within the meaning of the NYSE s listing standards, and that each of them is independent from management and from our independent registered public accounting firm, as required by NYSE listing standard rules regarding director independence. See *Committees of the Board Audit Committee* below.

Our Chairman, Mr. Lapeyre, is an executive officer and significant shareholder of Laitram, L.L.C., a company with which ION has ongoing contractual relationships, and Mr. Lapeyre and Laitram together owned approximately 9.4% of our outstanding common stock as of February 20, 2009. Our Board has determined that these contractual relationships have not interfered with Mr. Lapeyre s demonstrated independence from our management, and that the services performed by Laitram for ION are being provided at arm s length in the ordinary course of business and substantially on the same terms to ION as those prevailing at the time from unrelated parties for comp