
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

SCHEDULE 14A INFORMATION
Proxy Statement Pursuant to Section 14(a)
of the Securities Exchange Act of 1934

Filed by the Registrant
Filed by a party other than the Registrant

Check the appropriate box:

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

NORTHERN TECHNOLOGIES INTERNATIONAL 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):

- No fee required.
 - Fee computed on table below per Exchange Act Rules 14a-6(i)(1) and 0-11.
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PRELIMINARY PROXY MATERIAL-SUBJECT TO COMPLETION



NORTHERN TECHNOLOGIES INTERNATIONAL CORPORATION

NOTICE OF ANNUAL MEETING OF STOCKHOLDERS

January 18, 2019

The Annual Meeting of Stockholders of Northern Technologies International Corporation, a Delaware corporation, will be held at NTIC's corporate executive offices located at 4201 Woodland Road, Circle Pines, Minnesota 55014, beginning at 11:00 a.m., Central Standard Time, on Friday, January 18, 2019, for the following purposes:

1. To elect seven persons to serve as directors until our next annual meeting of stockholders or until their respective successors are elected and qualified.
2. To consider a proposal to approve the Northern Technologies International Corporation 2019 Stock Incentive Plan.
3. To approve, on an advisory basis, the compensation of our named executive officers, as disclosed in the accompanying proxy statement.
4. To ratify the selection of Baker Tilly Virchow Krause, LLP as our independent registered public accounting firm for the fiscal year ending August 31, 2019.
5. To ratify the filing and effectiveness of the Certificate of Amendment to our Restated Certificate of Incorporation filed with the Secretary of State of the State of Delaware on January 16, 2018 and the increase in the number of shares of authorized common stock effected thereby.
6. To transact such other business as may properly come before the meeting or any adjournment of the meeting.

Only those stockholders of record at the close of business on November 21, 2018 will be entitled to notice of, and to vote at, the meeting and any adjournments thereof. A stockholder list will be available at our corporate offices beginning January 8, 2019 during normal business hours for examination by any stockholder registered on NTIC's stock ledger as of the record date, November 21, 2018, for any purpose germane to the Annual Meeting.

As a result of the vote being taken at the Annual Meeting on Proposal Five, the ratification of the filing and effectiveness of the Certificate of Amendment to our Restated Certificate of Incorporation filed with the Secretary of State of the State of Delaware on January 16, 2018 and the increase in the number of shares of authorized common stock effected thereby (which amendment we refer to as the "share increase amendment" and which proposal we refer to as the "ratification proposal"), we are giving notice of the Annual Meeting to not only stockholders of record as of the record date for the meeting, November 21, 2018, but also stockholders of record as of November 17, 2017, which was the record date for our Annual

Meeting of Stockholders held last year. Although NTIC believes that the share increase amendment from last year's meeting was properly approved and is effective, because the description in the proxy statement for last year's meeting relative to the authority of brokers to vote on proposals without instruction may create some uncertainty as to the effect of the vote obtained at last year's meeting, and out of an abundance of caution, NTIC is asking its stockholders at the Annual Meeting to ratify the filing and effectiveness of the Certificate of Amendment to our Restated Certificate of Incorporation filed with the Secretary of State of the State of Delaware on January 16, 2018 pursuant to Delaware law in order to eliminate any uncertainty related to the effectiveness of the share increase amendment. Accordingly, under Section 204 of the Delaware General Corporation Law, or DGCL, stockholders of record as of November 17, 2017, other than holders whose identities or addresses cannot be determined from our records, are entitled to and are being given notice of the Annual Meeting, but are not entitled to attend the Annual Meeting or vote on any matter presented at the Annual Meeting unless they were also stockholders as of November 21, 2018, the record date for the Annual Meeting.

This notice and the attached proxy statement constitutes the notice required to be given to our stockholders under Section 204 of the DGCL in connection with the ratification proposal, including to our stockholders as of November 17, 2017. Under Sections 204 and 205 of the DGCL, when a matter is submitted for ratification at a stockholder meeting, any claim that the defective corporate act ratified under Section 204 is void or voidable due to the failure of authorization, or that the Delaware Court of Chancery should declare in its discretion that a ratification in accordance with Section 204 of the DGCL not be effective or be effective only on certain conditions, must be brought within 120 days from the applicable validation effective time.

If the ratification proposal is approved by NTIC's stockholders, then NTIC expects to file a Certificate of Validation promptly after the adjournment of the Annual Meeting. Any claim that the filing and effectiveness of the share increase amendment is void or voidable due to the failure to receive the requisite stockholder approval at last year's Annual Meeting of Stockholders, or that the Delaware Court of Chancery should declare in its discretion that the ratification proposal not be effective or be effective only on certain conditions, must be brought within 120 days from the validation effective time, which, in the case of the ratification of the share increase amendment, will be the time at which a Certificate of Validation filed in respect of the ratification proposal becomes effective under the DGCL.

We are pleased again this year to use the "Notice and Access" method of providing proxy materials to our stockholders via the Internet. We believe that this process expedites your receipt of our proxy materials, lowers the costs of our Annual Meeting and reduces the environmental impact of our meeting.

By Order of the Board of Directors,



Matthew C. Wolsfeld
Corporate Secretary

November 30, 2018
Circle Pines, Minnesota

Important: Whether or not you expect to attend the meeting in person, please vote by the Internet or telephone, or request a paper proxy card to sign, date and return by mail so that your shares may be voted. A prompt response is helpful and your cooperation is appreciated.

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INTERNET AVAILABILITY OF PROXY MATERIALS

Instead of mailing a printed copy of our proxy materials, including our Annual Report to Stockholders, to each stockholder of record, we have provided access to these materials in a fast and efficient manner via the Internet. We believe that this process expedites your receipt of our proxy materials, lowers the costs of our Annual Meeting and reduces the environmental impact of our meeting. On or about November 30, 2018, we expect to begin mailing a Notice of Internet Availability of Proxy Materials to stockholders of record as of November 21, 2018 (and as explained in the Notice of Meeting stockholders of record as of November 17, 2017), and post our proxy materials on the website referenced in the Notice of Internet Availability of Proxy Materials (www.proxyvote.com). As more fully described in the Notice of Internet Availability of Proxy Materials, stockholders may choose to access our proxy materials at www.proxyvote.com or may request proxy materials in printed or electronic form. In addition, the Notice of Internet Availability of Proxy Materials and website provide information regarding how you may request to receive proxy materials in printed form by mail or electronically by email on an ongoing basis. For those who previously requested printed proxy materials or electronic materials on an ongoing basis, you will receive those materials as you requested.

**Important Notice Regarding the Availability of Proxy Materials
for the Annual Meeting of Stockholders to be Held on January 18, 2019:
The Notice of Annual Meeting of Stockholders and Proxy Statement and
Annual Report to Stockholders, including our Annual Report on Form 10-K
for the fiscal year ended August 31, 2018, are available at www.proxyvote.com.**



4201 Woodland Road, Circle Pines, Minnesota 55014

**PROXY STATEMENT FOR
ANNUAL MEETING OF STOCKHOLDERS
January 18, 2019**

The Board of Directors of Northern Technologies International Corporation is soliciting your proxy for use at the 2019 Annual Meeting of Stockholders to be held on Friday, January 18, 2019. The Board of Directors expects to make available to our stockholders beginning on or about November 30, 2018 the Notice of Annual Meeting of Stockholders, this proxy statement and a form of proxy on the Internet or has sent these materials to stockholders of NTIC upon their request.

GENERAL INFORMATION ABOUT THE ANNUAL MEETING AND VOTING

Date, Time, Place and Purposes of Meeting

The Annual Meeting of Stockholders of Northern Technologies International Corporation (sometimes referred to as “NTIC,” “we,” “our” or “us” in this proxy statement) will be held on Friday, January 18, 2019, at 11:00 a.m., Central Standard Time, at the principal executive offices of Northern Technologies International Corporation located at 4201 Woodland Road, Circle Pines, Minnesota 55014, for the purposes set forth in the Notice of Annual Meeting of Stockholders.

As a result of the vote being taken at the Annual Meeting on Proposal Five, the ratification of the filing and effectiveness of the Certificate of Amendment to our Restated Certificate of Incorporation filed with the Secretary of State of the State of Delaware on January 16, 2018 and the increase in the number of shares of authorized common stock effected thereby (which amendment we refer to as the “share increase amendment” and which proposal we refer to as the “ratification proposal”), we are giving notice of the Annual Meeting to not only stockholders of record as of the record date for the meeting, November 21, 2018, but also stockholders of record as of November 17, 2017, which was the record date for our Annual Meeting of Stockholders held last year. Although NTIC believes that the share increase amendment from last year’s meeting was properly approved and is effective, because the description in the proxy statement for last year’s meeting relative to the authority of brokers to vote on proposals without instruction may create some uncertainty as to the effect of the vote obtained at last year’s meeting, and out of an abundance of caution, NTIC is asking its stockholders at the Annual Meeting to ratify the filing and effectiveness of the Certificate of Amendment to our Restated Certificate of Incorporation filed with the Secretary of State of the State of Delaware on January 16, 2018 pursuant to Delaware law in order to eliminate any uncertainty related to the effectiveness of the share increase amendment. Accordingly, under Section 204 of the Delaware General Corporation Law, or DGCL, stockholders of record as of November 17, 2017, other than holders whose identities or addresses cannot be determined from our records, are entitled to and are being given notice of the Annual Meeting, but are not entitled to attend the

Annual Meeting or vote on any matter presented at the Annual Meeting unless they were also stockholders as of November 21, 2018, the record date for the Annual Meeting.

This notice and the attached proxy statement constitutes the notice required to be given to our stockholders under Section 204 of the DGCL in connection with the ratification proposal, including to our stockholders as of November 17, 2017. Under Sections 204 and 205 of the DGCL, when a matter is submitted for ratification at a stockholder meeting, any claim that the defective corporate act ratified under Section 204 is void or voidable due to the failure of authorization, or that the Delaware Court of Chancery should declare in its discretion that a ratification in accordance with Section 204 of the DGCL not be effective or be effective only on certain conditions, must be brought within 120 days from the applicable validation effective time. If the ratification proposal is approved by NTIC's stockholders, then NTIC expects to file a Certificate of Validation promptly after the adjournment of the Annual Meeting. Any claim that the filing and effectiveness of the share increase amendment is void or voidable due to the failure to receive the requisite stockholder approval at last year's Annual Meeting of Stockholders, or that the Delaware Court of Chancery should declare in its discretion that the ratification proposal not be effective or be effective only on certain conditions, must be brought within 120 days from the validation effective time, which, in the case of the ratification of the share increase amendment, will be the time at which a Certificate of Validation filed in respect of the ratification proposal becomes effective under the DGCL.

Who Can Vote

Stockholders of record at the close of business on November 21, 2018 will be entitled to notice of and to vote at the meeting or any adjournment of the meeting. As of that date, there were 4,542,177 shares of our common stock outstanding. Each share of our common stock is entitled to one vote on each matter to be voted on at the Annual Meeting. Stockholders are not entitled to cumulate voting rights.

In connection with the ratification proposal, stockholders of record as of November 17, 2017, other than holders whose identities or addresses cannot be determined from our records, are receiving notice of the Annual Meeting under Section 204 of the DGCL. However, persons who were stockholders as of November 17, 2017, but who are not stockholders as of November 21, 2018, the record date for the Annual Meeting, are not entitled to attend the Annual Meeting or vote on any matter presented at the Annual Meeting.

How You Can Vote

Your vote is important. Whether you hold shares directly as a stockholder of record or beneficially in "street name" (through a broker, bank or other nominee), you may vote your shares without attending the Annual Meeting. You may vote by granting a proxy or, for shares held in street name, by submitting voting instructions to your broker, bank or other nominee.

If you are a registered stockholder whose shares are registered in your name, you may vote your shares in person at the meeting or by one of the three following methods:

- **Vote by Internet**, by going to the website address <http://www.proxyvote.com> and following the instructions for Internet voting shown on the Notice of Internet Availability of Proxy Materials or on your proxy card.
- **Vote by Telephone**, by dialing 1-800-690-6903 and following the instructions for telephone voting shown on the Notice of Internet Availability of Proxy Materials or on your proxy card.

- **Vote by Proxy Card**, by completing, signing, dating and mailing the enclosed proxy card in the envelope provided if you received a paper copy of these proxy materials.

If you vote by Internet or telephone, please do not mail your proxy card.

If your shares are held in “street name” (through a broker, bank or other nominee), you may receive a separate voting instruction form with this proxy statement or you may need to contact your broker, bank or other nominee to determine whether you will be able to vote electronically using the Internet or telephone.

The deadline for voting by telephone or by using the Internet is 11:59 p.m., Eastern Standard Time (10:59 p.m., Central Standard Time), on the day before the date of the Annual Meeting or any adjournments thereof. Please see the Notice of Internet Availability of Proxy Materials, your proxy card or the information your bank, broker, or other holder of record provided to you for more information on your options for voting.

If you return your signed proxy card or use Internet or telephone voting before the Annual Meeting, the named proxies will vote your shares as you direct. You have three choices on each matter to be voted on.

For Proposal One—Election of Directors, you may:

- Vote **FOR** all seven nominees for director,
- **WITHHOLD** your vote from all seven nominees for director or
- **WITHHOLD** your vote from one or more of the seven nominees for director.

For each of the other proposals, you may:

- Vote **FOR** the proposal,
- Vote **AGAINST** the proposal or
- **ABSTAIN** from voting on the proposal.

If you send in your proxy card or use Internet or telephone voting, but do not specify how you want to vote your shares, the proxies will vote your shares **FOR** all seven of the nominees for election to the Board of Directors in Proposal One—Election of Directors and **FOR** each of the other proposals.

How Does the Board Recommend that You Vote

The Board of Directors unanimously recommends that you vote:

- **FOR** all seven of the nominees for election to the Board of Directors in Proposal One—Election of Directors;
- **FOR** Proposal Two— Approval of the Northern Technologies International Corporation 2019 Stock Incentive Plan;
- **FOR** Proposal Three—Advisory Vote on Executive Compensation;

- **FOR** Proposal Four—Ratification of Selection of Independent Registered Public Accounting Firm; and
- **FOR** Proposal Five—Ratification of Share Increase Amendment.

How You May Change Your Vote or Revoke Your Proxy

If you are a stockholder whose shares are registered in your name, you may revoke your proxy at any time before it is voted by one of the following methods:

- Submitting another proper proxy with a more recent date than that of the proxy first given by following the Internet or telephone voting instructions or completing, signing, dating and returning a proxy card to us;
- Sending written notice of your revocation to our Corporate Secretary; or
- Attending the Annual Meeting and voting by ballot.

Quorum Requirement

The presence at the Annual Meeting, in person or by proxy, of the holders of a majority (2,271,089 shares) of the outstanding shares of our common stock as of the record date will constitute a quorum for the transaction of business at the Annual Meeting. In general, shares of our common stock represented by proxies marked “For,” “Against,” “Abstain” or “Withheld” are counted in determining whether a quorum is present. In addition, a “broker non-vote” is counted in determining whether a quorum is present. A “broker non-vote” is a proxy returned by a broker on behalf of its beneficial owner customer that is not voted on a particular matter because voting instructions have not been received by the broker from the customer, and the broker has no discretionary authority to vote on behalf of such customer on such matter.

Vote Required

Proposal One—Election of Directors will be decided by the affirmative vote of a plurality of shares of our common stock present in person or represented by proxy and entitled to vote at the Annual Meeting. A “plurality” for Proposal One means the individuals who receive the greatest number of votes cast “For” are elected as directors.

Proposal Two— Approval of the Northern Technologies International Corporation 2019 Stock Incentive Plan will be decided by the affirmative vote of a majority of votes cast on this proposal.

Proposal Three—Advisory Vote on Executive Compensation will be decided by the affirmative vote of a majority of shares of our common stock present in person or represented by proxy and entitled to vote at the Annual Meeting. Although this is a non-binding, advisory vote, the Compensation Committee and Board of Directors expect to take into account the outcome of the vote when considering future executive compensation decisions.

Proposal Four—Ratification of Selection of Independent Registered Public Accounting Firm will be decided by the affirmative vote of a majority of shares of our common stock present in person or represented by proxy and entitled to vote at the Annual Meeting.

Proposal Five—Ratification of Share Increase Amendment will be decided by the affirmative vote of a majority of shares of our common stock outstanding as of the record date for the 2019 Annual Meeting.

If your shares are held in “street name” and you do not indicate how you wish to vote, your broker is permitted to exercise its discretion to vote your shares only on certain “routine” matters. Proposal One—Election of Directors, Proposal Two— Approval of the Northern Technologies International Corporation 2019 Stock Incentive Plan and Proposal Three—Advisory Vote on Executive Compensation are not “routine” matters. Accordingly, if you do not direct your broker how to vote, your broker may not exercise discretion and may not vote your shares on either of these three proposals. This is called a “broker non-vote” and although your shares will be considered to be represented by proxy at the meeting, they will not be considered to be shares “entitled to vote” or “votes cast” at the meeting and will not be counted as having been voted on the applicable proposal. Proposal Four—Ratification of Selection of Independent Registered Public Accounting Firm and Proposal Five—Ratification of Share Increase Amendment are “routine” matters and, as such, your broker is permitted to exercise its discretion to vote your shares for or against the proposals in the absence of your instruction.

Proposal	Votes Required	Effect of Votes Withheld / Abstentions	Effect of Broker Non-Votes
<u>Proposal One</u> : Election of Directors	Plurality of the votes cast. This means that the seven nominees receiving the highest number of affirmative “FOR” votes will be elected as directors.	Votes withheld will have no effect.	Broker non-votes will have no effect.
<u>Proposal Two</u> : Approval of the Northern Technologies International Corporation 2019 Stock Incentive Plan	Affirmative vote of a majority of votes cast on the proposal.	Abstentions will have the effect of a vote against the proposal.	Broker non-votes will have no effect.
<u>Proposal Three</u> : Advisory Vote on Executive Compensation	Affirmative vote of the holders of a majority in voting power of the shares of common stock present in person or by proxy and entitled to vote thereon.	Abstentions will have the effect of a vote against the proposal.	Broker non-votes will have no effect.
<u>Proposal Four</u> : Ratification of Appointment of Independent Registered Public Accounting Firm	Affirmative vote of the holders of a majority in voting power of the shares of common stock present in person or by proxy and entitled to vote thereon.	Abstentions will have the effect of a vote against the proposal.	We do not expect any broker non-votes on this proposal.
<u>Proposal Five</u> : Ratification of Share Increase Amendment	Affirmative vote of a majority of shares of common stock outstanding on the record date of the 2019 Annual Meeting.	Abstentions will have the effect of a vote against the proposal.	We do not expect any broker non-votes on this proposal.

Other Business

Our management does not intend to present other items of business and knows of no items of business that are likely to be brought before the Annual Meeting, except those described in this proxy statement. However, if any other matters should properly come before the Annual Meeting, the persons named on the proxy card will have discretionary authority to vote such proxy in accordance with their best judgment on the matters.

Procedures at the Annual Meeting

The presiding officer at the Annual Meeting will determine how business at the meeting will be conducted. Only matters brought before the Annual Meeting in accordance with our Bylaws will be considered. Only a natural person present at the Annual Meeting who is either one of our stockholders, or is acting on behalf of one of our stockholders, may make a motion or second a motion. A person acting on behalf of a stockholder must present a written statement executed by the stockholder or the duly-authorized representative of the stockholder on whose behalf the person purports to act.

Householding of Annual Meeting Materials

Some banks, brokers and other nominee record holders may be participating in the practice of “householding” proxy statements, annual reports and the Notice of Internet Availability of Proxy Materials. This means that only one copy of this proxy statement, our Annual Report to Stockholders or the Notice of Internet Availability of Proxy Materials may have been sent to multiple stockholders in each household. We will promptly deliver a separate copy of any of these documents to any stockholder upon written or oral request to our Stockholder Information Department, Northern Technologies International Corporation, 4201 Woodland Road, Circle Pines, Minnesota 55014, telephone: (763) 225-6637. Any stockholder who wants to receive separate copies of this proxy statement, our Annual Report to Stockholders or the Notice of Internet Availability of Proxy Materials in the future, or any stockholder who is receiving multiple copies and would like to receive only one copy per household, should contact the stockholder’s bank, broker or other nominee record holder, or the stockholder may contact us at the above address and telephone number.

Proxy Solicitation Costs

The cost of soliciting proxies, including the preparation, assembly, electronic availability and mailing of proxies and soliciting material, as well as the cost of making available or forwarding this material to the beneficial owners of our common stock will be borne by NTIC. Our directors, officers and regular employees may, without compensation other than their regular compensation, solicit proxies by telephone, e-mail, facsimile or personal conversation. We may reimburse brokerage firms and others for expenses in making available or forwarding solicitation materials to the beneficial owners of our common stock.

PROPOSAL ONE—ELECTION OF DIRECTORS

Number of Directors

Our Bylaws provide that the Board of Directors will consist of at least one member or such other number as may be determined by the Board of Directors from time to time or by the stockholders at an annual meeting. The Board of Directors has fixed the number of directors at seven.

Nominees for Director

The Board of Directors has nominated the following seven individuals to serve as our directors until the next annual meeting of stockholders or until their successors are elected and qualified. All of the nominees named below are current members of the Board of Directors.

- Barbara D. Colwell
- Soo-Keong Koh
- Sunggyu Lee, Ph.D.
- G. Patrick Lynch
- Ramani Narayan, Ph.D.
- Richard J. Nigon
- Konstantin von Falkenhausen

Proxies can only be voted for the number of persons named as nominees in this proxy statement, which is seven.

Information about Current Directors and Board Nominees

The following table sets forth as of November 15, 2018 the name, age and principal occupation of each current director and each individual who has been nominated by the Board of Directors to serve as a director of our company, as well as how long each individual has served as a director of NTIC.

Name	Age	Principal Occupation	Director Since
Barbara D. Colwell ⁽¹⁾⁽²⁾	73	Director of NTIC and Certain Other Companies and Organizations	2013
Soo-Keong Koh ⁽²⁾	67	Managing Director of EcoSave Pte Ltd.	2008
Sunggyu Lee, Ph.D. ⁽³⁾	66	Russ Ohio Research Scholar in Syngas Utilization and Professor of Chemical and Biomolecular Engineering at Ohio University	2004
G. Patrick Lynch	51	President and Chief Executive Officer of NTIC	2004
Ramani Narayan, Ph.D.	69	Distinguished Professor in the Department of Chemical Engineering & Materials Science at Michigan State University	2004
Richard J. Nigon ⁽¹⁾⁽²⁾⁽³⁾	70	Senior Vice President of Cedar Point Capital, Inc.	2010
Konstantin von Falkenhausen ⁽¹⁾⁽³⁾	51	Partner of B Capital Partners AG	2012

(1) Member of the Audit Committee

(2) Member of the Nominating and Corporate Governance Committee

(3) Member of the Compensation Committee

Additional Information about Current Directors and Board Nominees

The following paragraphs provide information about each current director and nominee for director, including all positions he or she holds, his or her principal occupation and business experience for the past five years, and the names of other publicly-held companies of which the director or nominee currently serves as a director or has served as a director during the past five years. We believe that all of our directors and nominees display personal and professional integrity; satisfactory levels of education and/or business experience; broad-based business acumen; an appropriate level of understanding of our business and its industry and other industries relevant to our business; the ability and willingness to devote adequate time to the work of the Board of Directors and its committees; a fit of skills and personality with those of our other directors that helps build a board that is effective, collegial and responsive to the needs of our company; strategic thinking and a willingness to share ideas; a diversity of experiences, expertise and background; and the ability to represent the interests of all of our stockholders. The information presented below regarding each director and nominee also sets forth specific experience, qualifications, attributes and skills that led the Board of Directors to the conclusion that such individual should serve as a director in light of our business and structure.

Barbara D. Colwell has been a director of NTIC since November 2013. Ms. Colwell is a member of the board of directors or advisory board of several non-profit organizations and private and mutual companies, including most notably, the Publishers Clearing House, LLC, Triumph Oil & Gas Operating Company, LLC, IPTAR (Institute for Psychoanalytic Training and Research), the Belizean Grove and Mutual Trust Life Insurance. We believe Ms. Colwell's qualifications to sit on the Board of Directors include her current and prior experience on the boards of directors of other organizations and companies and, in particular, her experience serving on the audit committee, governance committee and compensation committee of Publishers Clearing House, LLC, as well as her former experience serving on the audit committee and compensation committee of Mutual Trust Financial Group.

Soo-Keong Koh has been a director of NTIC since May 2008. Mr. Koh is the Managing Director of Ecosave Pte Ltd., a company whose business is focused on environmental biotech and energy conservation technologies, a position he has held since April 2007. From January 1986 to April 2007, Mr. Koh served as Chief Executive Officer and President of Toll Asia Pte Ltd formerly SembCorp Logistics Ltd (SembLog), a Singapore public listed company, which was acquired by Toll in May 2006. Mr. Koh has over 20 years of experience in the logistics industry. Mr. Koh holds a Bachelor of Engineering, a Master of Business Administration and a Postgraduate Diploma in Business Law from the University of Singapore (now known as the National University of Singapore). We believe Mr. Koh's qualifications to sit on the Board of Directors include his experience on other public company boards of directors and his significant executive experience with companies including those focused on environmental awareness, which has become a focus of NTIC during the past several years, especially in light of NTIC's Natur-Tec® bioplastics business. Mr. Koh's previous board of director experience is helpful in guiding NTIC with respect to corporate governance matters, particularly in his role as Chair of the Nominating and Corporate Governance Committee. Additionally, Mr. Koh has specific executive experience with companies located in Asia, which is where several of NTIC's joint ventures and NTIC's Chinese subsidiary are located.

Sunggyu Lee, Ph.D. was elected a director of NTIC in January 2004. Dr. Lee is a Russ Ohio Research Scholar in Syngas Utilization and Professor of Chemical and Biomolecular Engineering, Ohio University, Athens, Ohio. Previously, he held positions of Professor of Chemical and Biologic Engineering, Missouri University of Science and Technology, Rolla, Missouri from 2005 to 2010, C.W. LaPierre Professor and Chairman of Chemical Engineering at University of Missouri-Columbia from 1997 to 2005, and Robert Iredell Professor and Head of Chemical Engineering Department at the University of Akron, Akron, Ohio from 1988 to 1996. He has authored 12 books and over 550 archival publications and received 35 U.S.

patents in a variety of chemical and polymer processes and products. He is currently serving as Editor of Encyclopedia of Chemical Processing, Taylor & Francis, New York, New York and also as Book Series Editor of Green Chemistry and Chemical Engineering, CRC Press, Boca Raton, Florida. Throughout his career, he has served as consultant and technical advisor to a number of national and international companies in the fields of polymers, petrochemicals and energy. He received his Ph.D. from Case Western Reserve University, Cleveland, Ohio in 1980. We believe Dr. Lee's qualifications to sit on the Board of Directors include his significant technical and industrial expertise with chemical and polymer processes and products. Such expertise is particularly helpful with respect to assessing and operating NTIC's Natur-Tec® bioplastics business.

G. Patrick Lynch, an employee of NTIC since 1995, has been President since July 2005 and Chief Executive Officer since January 2006 and was appointed a director of NTIC in February 2004. Mr. Lynch served as President of North American Operations of NTIC from May 2004 to July 2005. Prior to May 2004, Mr. Lynch held various positions with NTIC, including Vice President of Strategic Planning, Corporate Secretary and Project Manager. Mr. Lynch is also an officer and director of Inter Alia Holding Company, which is a significant stockholder of NTIC. Prior to joining NTIC, Mr. Lynch held positions in sales management for Fuji Electric Co., Ltd. in Tokyo, Japan, and programming project management for BMW AG in Munich, Germany. Mr. Lynch received a Master of Business Administration degree from the University of Michigan Ross School of Business. We believe Mr. Lynch's qualifications to sit on the Board of Directors include his depth of knowledge of our company and its day-to-day operations in light of his position as Chief Executive Officer of NTIC, as well as his affiliation with a significant stockholder of NTIC, which the Board of Directors believes generally helps align management's interests with those of our stockholders.

Ramani Narayan, Ph.D. has been a director of NTIC since November 2004. He is a Distinguished Professor at Michigan State University in the Department of Chemical Engineering & Materials Science, where he has 200+ refereed publications in leading journals to his credit, 19 patents, edited three books and one expert dossier in the area of bio-based polymeric materials. His research encompasses design and engineering of sustainable, biobased products, biodegradable plastics and polymers, biofiber reinforced composites, reactive extrusion polymerization and processing, studies in plastic end-of-life options like biodegradation and composting. He conducts carbon footprint calculations for plastics and products. He also performs LCA (Life Cycle Assessment) for reporting a product's environmental footprint. He serves as Scientific Chair of the Biodegradable Products Institute (BPI), North America. He served on the Technical Advisory Board of Tate & Lyle. He served on the Board of Directors of ASTM International, an international standards setting organization and was the founding Chair of the committee on Environmentally Degradable Plastics and Biobased Products (D20.96) and the Plastics Terminology Committee (D20.92). Dr. Narayan is also the technical expert for the United States on ISO (International Standards Organization) TC 61 on Plastics—specifically for Terminology, Biobased and Biodegradable Plastics. He has won numerous awards, including the Named MSU University Distinguished Professor in 2007; the Governors University Award for commercialization excellence; Michigan State University Distinguished Faculty Award, 2006, 2005 Withrow Distinguished Scholar award, Fulbright Distinguished Lectureship Chair in Science & Technology Management & Commercialization (University of Lisbon; Portugal); First recipient of the William N. Findley Award, The James Hammer Memorial Lifetime Achievement Award, and Research and Commercialization Award sponsored by ICI Americas, Inc. & the National Corn Growers Association. We believe Dr. Narayan's qualifications to sit on the Board of Directors include his significant technical expertise in the bioplastics area which has been helpful to NTIC's management in assessing and operating NTIC's Natur-Tec® bioplastics business.

Richard J. Nigon has been a director of NTIC since February 2010 and non-executive Chairman of the Board since November 2012. Mr. Nigon is the Senior Vice President of Cedar Point Capital, Inc., a private company that raises capital for early stage companies. From February 2001 until May 2007, Mr. Nigon was a Director of Equity Corporate Finance for Miller Johnson Steichen Kinnard (MJSK), a privately held investment firm. In December 2006, MJSK was acquired by Stifel Nicolaus, and Mr. Nigon was a Managing Director of Private Placements at Stifel Nicolaus. From February 2000 to February 2001, Mr. Nigon served as the Chief Financial Officer of Dantis, Inc., a web hosting company. Prior to joining Dantis, Mr. Nigon was employed by Ernst & Young, LLP from 1970 to 2000, where he served as a partner from 1981 to 2000. While at Ernst & Young, Mr. Nigon served as the Director of Ernst & Young's Twin Cities Entrepreneurial Services Group and was the coordinating partner on several publicly-traded companies in the consumer retailing and manufacturing sectors. Mr. Nigon also currently serves as President of NorthStar Education Finance, Inc., a non-profit organization formed to foster, aid, encourage and assist the pursuit of higher education. In addition to NTIC, Mr. Nigon also serves on the board of directors of Tactile Systems Technology, Inc. and as chairperson of its audit committee, on the board of directors of Celcuity Inc. and as chairperson of its audit committee and serves on the board of directors of a number of privately-held companies. Mr. Nigon previously served on the board of directors of Virtual Radiologic Corporation and Vascular Solutions, Inc. until its acquisition by Teleflex Incorporated in February 2017. Through his 30 years of service at Ernst & Young, LLP, Mr. Nigon brings to NTIC's Board of Directors, and in particular the Audit Committee, extensive public accounting and auditing experience. The Board of Directors believes Mr. Nigon's strong background in financial controls and reporting, financial management, financial analysis and Securities and Exchange Commission reporting requirements is critical to the Board's oversight responsibilities. In addition, Mr. Nigon's strategic planning expertise and other experiences gained through his management and leadership roles at private investment firms that have invested in early stage companies, is helpful to the Board of Directors in assessing and operating NTIC's newer businesses.

Konstantin von Falkenhausen has been a director of NTIC since November 2012. Mr. von Falkenhausen is currently a Partner of B Capital Partners AG, an independent investment advisory boutique focused on infrastructure, public private partnerships and clean energy. In this capacity, since April 2018, Mr. von Falkenhausen has been a Director of the general partner of the B Capital Energy Transition Infrastructure Fund SICAV-SIF, an investment fund registered with the Luxembourg financial authorities CSSF. From February 2004 to March 2008, Mr. von Falkenhausen served as a Partner of capiton AG, a private equity firm. From March 2003 to February 2004, he served as interim Chief Financial Officer of Neon Products GmbH, a privately held neon lighting company. From May 1999 to February 2003, Mr. von Falkenhausen served as an investment manager of West Private Equity Ltd. and an investment director of its German affiliate West Private Capital GmbH. Prior to May 1999, Mr. von Falkenhausen served in several positions with BankBoston Robertson Stephens International Ltd., an investment banking firm. Mr. von Falkenhausen is a citizen of Germany. He has a Master's degree in economics (lic. oec) from the University of Fribourg (Switzerland) and a Masters of Business Administration from the University of Chicago. We believe Mr. von Falkenhausen's qualifications to sit on the Board of Directors include his experience with several private investment and equity firms that have invested in early stage companies, which the Board of Directors believes is helpful in assessing and operating NTIC's newer businesses, and his financial expertise, which the Board of Directors believes is helpful in analyzing NTIC's financial performance.

Board Recommendation

The Board of Directors unanimously recommends a vote **FOR** the election of all of the seven nominees named above.

If prior to the Annual Meeting, the Board of Directors should learn that any nominee will be unable to serve for any reason, the proxies that otherwise would have been voted for this nominee will be voted for a substitute nominee as selected by the Board. Alternatively, the proxies, at the Board's discretion, may be voted for that fewer number of nominees as results from the inability of any nominee to serve. The Board of Directors has no reason to believe that any of the nominees will be unable to serve.

PROPOSAL TWO— APPROVAL OF NORTHERN TECHNOLOGIES INTERNATIONAL CORPORATION 2019 STOCK INCENTIVE PLAN

Background

On November 16, 2018, the Board of Directors, upon recommendation of the Compensation Committee, approved the Northern Technologies International Corporation 2019 Stock Incentive Plan (referred to in this section as the “2019 plan” or the “plan”), subject to approval by our stockholders at the Annual Meeting. The purpose of the 2019 plan is to advance the interests of NTIC and our stockholders by enabling us to attract and retain qualified individuals to perform services, provide incentive compensation for such individuals in a form that is linked to the growth and profitability of our company and increases in stockholder value, and provide opportunities for equity participation that align the interests of recipients with those of our stockholders.

If our stockholders approve the 2019 plan, it will replace the Northern Technologies International Corporation Amended and Restated 2007 Stock Incentive Plan (referred to as the “2007 plan”), with the remaining shares available for grant under the 2007 plan rolling over into the 2019 plan, and no new awards will be granted under the 2007 plan. The terms of the 2007 plan, as applicable, will continue to govern awards outstanding under the 2007 plan, until exercised, expired, paid or otherwise terminated or canceled. Other than the 2007 plan, we have no other equity compensation plans under which equity awards can be granted.

Subject to adjustment, the maximum number of shares of our common stock to be authorized for issuance under the 2019 plan is 400,000 shares, plus (i) shares of our common stock available for issuance under the 2007 plan as of the date of stockholder approval of the 2019 plan, but not subject to outstanding awards and (ii) shares subject to awards outstanding under the 2007 plan as of the date of stockholder approval of the 2019 plan that are subsequently forfeited or cancelled or expire or otherwise terminate without the issuance of such shares (which may otherwise be returned and available for grant under the terms of the 2007 plan and 2019 plan).

The Board of Directors is asking our stockholders to approve the 2019 plan in order to qualify stock options for treatment as incentive stock options for purposes of Section 422 of the Internal Revenue Code of 1986, as amended, or Code. In addition, the Listing Rules of the Nasdaq Stock Market require stockholder approval of the 2019 plan. If our stockholders do not approve the 2019 plan, the 2007 plan will remain in effect until it terminates in accordance with its terms.

The 2019 plan allows us to award eligible recipients the following awards:

- options to purchase shares of our common stock that qualify as “incentive stock options” within the meaning of Section 422 of the Code (referred to as “incentive options”);
- options to purchase shares of our common stock that do not qualify as incentive options (referred to as “non-statutory options”);
- rights to receive a payment from us, in the form of shares of our common stock, cash or a combination of both, equal to the difference between the fair market value of one or more shares of our common stock and a specified exercise price of such shares (referred to as “stock appreciation rights” or “SARs”);

- shares of our common stock that are subject to certain forfeiture and transferability restrictions (referred to as “restricted stock awards”);
- rights to receive the fair market value of one or more shares of our common stock, payable in cash, shares of our common stock, or a combination of both, the payment, issuance, retention and/or vesting of which is subject to the satisfaction of specified conditions, which may include achievement of specified objectives (referred to as “restricted stock unit awards” or “RSUs”);
- rights to receive an amount of cash, a number of shares of our common stock, or a combination of both, contingent upon achievement of specified objectives during a specified period (referred to as “performance awards”); and
- other stock-based awards.

In the following discussion, we refer to both incentive options and non-statutory options as “options,” and to options, stock appreciation rights, restricted stock awards, restricted stock units, performance awards and other stock based awards as “incentive awards.”

Reasons Why You Should Vote in Favor of the Approval of the Northern Technologies International Corporation 2019 Stock Incentive Plan

The Board of Directors recommends a vote for the approval of the 2019 plan, because the Board of Directors believes the 2019 plan is in the best interests of our company and our stockholders for the following reasons:

- *Aligns directors, employee and stockholder interests.* We currently provide long-term incentives primarily in the form of stock option grants to our non-employee directors, executive officers and other key employees. We believe that our stock-based compensation programs help align the interests of our directors, executive officers and other key employees with our stockholders. We believe that our long-term stock-based incentives help promote long-term retention of our employees and encourage ownership of our common stock. If the 2019 plan is approved, we will be able to maintain our means of aligning the interests of our directors, executive officers and other key employees with the interests of our stockholders.
- *Attracts and retains talent.* Talented, motivated and effective directors, executives and employees are essential to executing our business strategies. Stock-based and annual cash incentive compensation has been an important component of total compensation at our company for many years because such compensation enables us to effectively recruit executives and other employees while encouraging them to act and think like owners of our company. If the 2019 plan is approved, we believe we will maintain our ability to offer competitive compensation packages to both retain our best performers and attract new talent.
- *Supports our pay-for-performance philosophy.* We believe that stock-based compensation, by its very nature, is performance-based compensation. We use incentive compensation to help reinforce desired financial and other business results to our executives and to motivate them to make decisions to produce those results.
- *Avoids disruption in our compensation programs.* The approval of 2019 plan by our stockholders is critical because there may be an insufficient number of shares of our common stock available for issuance under the currently existing Northern Technologies International Corporation Amended and Restated 2007 Stock Incentive Plan to cover anticipated future grants during the

next year or so. If the 2019 plan is approved, we will not have to restructure our existing compensation programs for reasons that are not directly related to the achievement of our financial and other business objectives. To remain competitive without stock-based compensation arrangements, it likely will be necessary to replace components of compensation previously awarded in equity with cash or with other instruments that may not necessarily align director, executive officer and employee interests with those of our stockholders as well as stock-based awards do. Additionally, replacing equity with cash will increase cash compensation expense and use cash that would be better utilized toward other strategic purposes, such as research and development and advancing our new businesses.

- *Protects stockholder interests and embraces sound stock-based compensation practices.* As described in more detail below under “*Summary of Sound Governance Features of the 2019 Plan,*” the 2019 plan includes a number of features that are consistent with the interests of our stockholders and sound corporate governance practices.

Summary of Sound Governance Features of the 2019 Plan

The Board of Directors and Compensation Committee believe that the 2019 plan contains several features that are consistent with the interests of our stockholders and sound corporate governance practices, including the following:

- *No automatic share replenishment or “evergreen” provision.* The number of shares of our common stock available for issuance under the 2019 plan is fixed and will not adjust based upon the number of outstanding shares of our common stock. If our stockholders approve the 2019 plan, we currently expect the number of shares authorized for issuance under the 2019 plan will last between three to four years, at which time we expect to ask our stockholders to approve an additional share authorization.
- *Will not be excessively dilutive to our stockholders.* As described in more detail below under “*—Background for Shares Authorized for Issuance Under the 2019 Plan,*” we believe that the number of shares authorized for issuance under the 2019 plan is appropriate and not excessively dilutive to our stockholders.
- *Limit on number of “full value” awards.* No more than 200,000 of the shares authorized for issuance under the 2019 plan may be issued pursuant to “full value” awards, which are awards other than stock options or SARs that are settled by the issuance of shares of our common stock.
- *No liberal share counting or “recycling” of shares from exercised stock options, SARs or other stock-based awards.* Shares withheld to satisfy tax withholding obligations on awards or to pay the exercise price of stock options, SARs or other stock-based awards and any shares not issued or delivered as a result of a “net exercise” of a stock option will not become available for issuance as future award grants under the 2019 plan. In addition, shares purchased by us on the open market using proceeds from the exercise of stock options or other awards will not become available for issuance as future award grants under the 2019 plan. The full number of shares subject to a SAR or other stock-based award that is settled by the issuance of shares will be counted against the shares authorized for issuance under the 2019 plan, regardless of the number of shares actually issued upon settlement of the SAR or other stock-based award.
- *No reload stock options or SARs.* The 2019 plan does not authorize reload stock options or SARs. Reload stock options and SARs are awards that automatically provide for an additional grant of awards of the same type upon the exercise of the award.

- *Stock option and SAR exercise prices will not be lower than the fair market value on the grant date.* The 2019 plan prohibits granting stock options and SARs with exercise prices lower than 100% fair market value of a share of our common stock on the grant date (or 110% of the fair market value in the case of an incentive option and if the participant owns more than 10% of the total combined voting power of all classes of our stock), except in connection with certain mergers, consolidations, acquisitions of property or stock, reorganizations or other similar transactions.
- *No re-pricing of “underwater” stock options or SARs without stockholder approval.* The 2019 plan prohibits the re-pricing of outstanding stock options or SARs without stockholder approval, except in connection with certain corporate transactions, such as a recapitalization or stock split, as may be necessary in order to prevent dilution or enlargement of the rights of participants. The 2019 plan defines “re-pricing” broadly to include amendments or modifications to the terms of outstanding stock options or SARs to lower the exercise price, canceling “underwater” stock options or SARs in exchange for cash, replacement awards having a lower exercise price or other awards, or repurchasing “underwater” stock options or SARs and granting a new award.
- *Stock options, SARs and unvested performance awards are not entitled to dividend equivalent rights and no dividends will be paid on unvested awards.* Stock option, SAR and unvested performance award holders have no rights as stockholders with respect to the shares underlying their awards until such awards are exercised or vested and shares are issued. As a result, stock options, SARs and unvested performance awards under the 2019 plan have no dividend equivalent rights associated with them. In addition, no dividends will be paid on any unvested awards.
- *Stockholder approval is required for material revisions to the plan.* The 2019 plan requires stockholder approval of material revisions to the plan.
- *No “tax gross-ups”.* The 2019 plan does not provide for any tax gross-ups.
- *“Clawback”.* The 2019 plan contains certain “clawback” provisions that require a participant to reimburse NTIC for any awards received after an accounting restatement and allow the Compensation Committee under certain circumstances to terminate outstanding awards and require a participant to return to NTIC any shares received, any profits or any other economic value realized by the participant in connection with any awards or any shares issued upon the exercise or vesting of any awards. In addition, under the terms of the 2019 plan, all incentive awards are subject to our recently adopted clawback policy.
- *Limits on non-employee director awards.* The 2019 plan contains meaningful annual limits on the number of shares of common stock subject to awards granted to non-employee directors.
- *Members of the committee administering the plan are non-employee and independent directors.* Except with respect to the grant of awards under the plan, the 2019 plan will continue to be administered by the Compensation Committee, which is comprised of two or more members of the Board of Directors who are “non-employee directors” within the meaning of Rule 16b-3 under the Exchange Act and “independent directors” under the listing standards of the Nasdaq Stock Market, the rules and regulations of the SEC and applicable law.

Background for Shares Authorized for Issuance under the 2019 Plan

If the 2019 plan is approved, the maximum number of shares of common stock available for issuance under the 2019 plan will be equal to the sum of 400,000 shares, plus (i) shares of our common stock available for issuance under the 2007 plan as of the date of stockholder approval of the 2019 plan, but not subject to outstanding awards and (ii) shares subject to awards outstanding under the 2007 plan as of the date of stockholder approval of the 2019 plan that are subsequently forfeited or cancelled or expire or otherwise terminate without the issuance of such shares. As of November 15, 2018, 69,534 shares of our common stock were available for issuance under the 2007 plan, but not subject to outstanding awards, and 419,586 shares of our common stock were subject to outstanding awards under the 2007 plan.

In setting the number of shares of common stock available for issuance under the 2019 plan, the Board of Directors and Compensation Committee considered a number of factors, which are discussed further below, including:

- Shares available and total outstanding equity-based awards under the 2007 plan and how long the shares available are expected to last;
- Historical equity award granting practices, including our three-year average share usage rate (commonly referred to as “burn rate”); and
- Potential dilution and overhang.

Shares Available and Outstanding Equity Awards under the 2007 Plan. While the use of long-term incentives, in the form of equity awards, is an important part of our compensation program, we are mindful of our responsibility to our stockholders to exercise judgment in the granting of equity awards. In setting the number of shares available for issuance under the 2019 plan, the Board of Directors and Compensation Committee also considered shares available and total outstanding equity awards under the 2007 plan and how long the shares available under the 2007 plan are expected to last. To facilitate the approval of the 2019 plan, set forth below is certain information about our shares of common stock that may be issued under our equity compensation plans as of November 15, 2018.

As of November 15, 2018, we had 4,542,177 shares of common stock issued and outstanding. The market value of one share of common stock on November 15, 2018, as determined by reference to the closing price as reported on the Nasdaq Stock Market, was \$_____.

As described in more detail in the table below, under the 2007 plan (and without giving effect to approval of the 2019 plan) as of November 15, 2018:

- 69,534 shares remained available for issuance under the 2007 plan;
- 419,586 shares were subject to outstanding stock options under the 2007 plan; and
- no full value or other incentive awards were outstanding under the 2007 plan.

Historical Equity Award Granting Practices. In setting the number of shares authorized for issuance under the 2019 plan, the Board of Directors and Compensation Committee also considered the historical number of equity awards granted under the 2007 plan in the past three full fiscal years. The following table sets forth information regarding awards granted and earned, and the annual burn rate for each of the last three fiscal years. The only equity awards granted under the 2007 plan during the past three fiscal years are stock options.

	<u>Fiscal 2018</u>	<u>Fiscal 2017</u>	<u>Fiscal 2016</u>
Stock options granted	47,252	56,677	53,447
Weighted average basic common shares outstanding during fiscal year	4,538,838	4,528,611	4,537,504
Burn rate	1.0%	1.25%	1.2%

The Board of Directors and Compensation Committee also considered our three-year average burn rate (2016 to 2018) of approximately 1.2%, which is lower than the industry thresholds established by certain major proxy advisory firms.

Based on historical granting practices and the recent trading price of our common stock, we expect the 2019 plan to cover awards for approximately three to four years.

Potential Dilution and Overhang. In setting the number of shares authorized for issuance under the 2019 plan, the Board of Directors and Compensation Committee also considered the potential dilution and overhang that would result by approval of the 2019 plan, including the policies of certain institutional investors and major proxy advisory firms.

Potential dilution is calculated as shown below:

$$\text{Potential dilution} = \frac{\text{Total outstanding award shares}}{\text{Total outstanding shares} + \text{Total outstanding award shares}}$$

Total outstanding award shares include shares to be issued on exercise or settlement of outstanding equity awards.

Potential overhang is calculated as shown below:

$$\text{Potential overhang} = \frac{\text{Total potential award shares}}{\text{Total outstanding shares} + \text{Total outstanding award shares}}$$

Total potential award shares include shares underlying equity awards that may be made under the plan plus total outstanding award shares.

As of November 15, 2018, potential dilution was 8.5% and potential overhang was 9.9%. If the 2019 plan is approved, potential dilution will be 8.5% and potential overhang will be 17.9%.

Summary of the 2019 Plan

The major features of the 2019 plan are summarized below. The summary is qualified in its entirety by reference to the full text of the 2019 plan, a copy of which may be obtained from us. A copy of the 2019 plan also has been filed electronically with the Securities and Exchange Commission, or SEC, as an appendix to this proxy statement, and is available through the SEC's website at <https://www.sec.gov>.

Purpose. The purpose of the 2019 plan is to advance the interests of our company and its stockholders by enabling us to attract and retain qualified individuals through opportunities for equity participation in our company and to reward those individuals who contribute to the achievement of our economic objectives.

Eligibility. All employees (including officers and directors who are also employees), non-employee directors, consultants, advisors and independent contractors of Northern Technologies International Corporation or any subsidiary will be eligible to receive incentive awards under the 2019 plan. As of November 15, 2018, there were approximately 75 persons who would be eligible to receive awards under the 2019 plan. Although not necessarily indicative of future grants under the 2019 plan, 15 employees or 20% of the approximately 75 eligible recipients have been granted awards under our currently existing 2007 plan.

Shares Available for Issuance. The maximum number of shares of our common stock available for issuance under the 2019 plan is 400,000 plus the number of shares subject to awards outstanding under our currently existing 2007 plan as of the date of stockholder approval of the 2019 plan but only to the extent that such outstanding awards are forfeited, expire or otherwise terminate without the issuance of such shares. The number of shares available for issuance under the 2019 plan is subject to increase to the extent that we issue shares or incentive awards under the 2019 plan in connection with certain merger and acquisition transactions, or assume any plan in a merger or acquisition transaction. However, any available shares in an assumed plan may only be utilized to the extent permitted under the Listing Rules of the Nasdaq Stock Market.

Shares of our common stock that are issued under the 2019 plan or that are potentially issuable pursuant to outstanding incentive awards reduce the number of shares remaining available. All shares so subtracted from the amount available under the plan with respect to an incentive award that lapses, expires, is forfeited or for any reason is terminated, unexercised or unvested and any shares of our common stock that are subject to an incentive award that is settled or paid in cash or any other form other than shares of our common stock will automatically again become available for issuance under the 2019 plan. However, any shares not issued due to the exercise of an option by a “net exercise” or the tender or attestation as to ownership of previously acquired shares (as described below), as well as shares covered by a stock appreciation right, to the extent exercised, and shares withheld by us to satisfy any tax withholding obligations will not again become available for issuance under the 2019 plan. Any shares of our common stock that we repurchase on the open market using the proceeds from the exercise of an award under the 2019 plan will not increase the number of shares available for future grants of awards under the 2019 plan.

Grant Limits. Under the terms of the 2019 plan:

- no more than 400,000 shares of our common stock may be issued pursuant to the exercise of incentive stock options;
- no more than 200,000 shares of our common stock may be issued or issuable in connection with full-value awards; and
- no more than 75,000 shares of our common stock may be granted to any non-employee director in any one calendar year; provided that such limit will not apply to any election of a non-employee director to receive shares of our common stock in lieu of all or a portion of any annual Board, committee, chair or other retainer, or any meeting fees otherwise payable in cash.

All of the share limitations in the 2019 plan may be adjusted to reflect changes in our corporate structure or shares, as described below. In addition, the limits on individual equity awards and on the number of

shares that may be issued as incentive options or other incentive awards will not apply to certain incentive awards granted upon our assumption or substitution of like awards in any merger or acquisition.

Adjustments. In the event of any reorganization, merger, consolidation, recapitalization, liquidation, reclassification, stock dividend, stock split, combination of shares, rights offering, divestiture or extraordinary dividend (including a spin-off) or any other similar change in our corporate structure or shares, we must adjust:

- the number and kind of securities available for issuance under the 2019 plan; and
- in order to prevent dilution or enlargement of the rights of participants, the number, kind and, where applicable, the exercise price of securities subject to outstanding incentive awards.

Administration. The 2019 plan will be administered by our Board of Directors or by a committee of the Board. Any such committee will consist of at least two members of the Board, all of whom are “non-employee directors” within the meaning of Rule 16b-3 under the Securities Exchange Act of 1934, as amended, or Exchange Act, who are “independent” as required by the listing standards of the Nasdaq Stock Market. We expect both the Board of Directors and the Compensation Committee of the Board of Directors to administer the 2019 plan. The Board of Directors or the committee administering the 2019 plan is referred to as the “committee.” The committee may delegate its duties, power and authority under the 2019 plan to any of our officers to the extent consistent with applicable Delaware corporate law, except with respect to participants subject to Section 16 of the Exchange Act.

The committee has the authority to determine all provisions of incentive awards consistent with terms of the 2019 plan, including, the eligible recipients who will be granted one or more incentive awards under the 2019 plan, the nature and extent of the incentive awards to be made to each participant and the form of an incentive award agreement, the time or times when incentive awards will be granted, the duration of each incentive award, and the restrictions and other conditions to which the payment or vesting of incentive awards may be subject. The committee has the authority to pay the economic value of any incentive award or settle any incentive award in the form of cash, our common stock or any combination of both, construe and interpret the 2019 Plan and incentive awards, determine fair market value of NTIC’s common stock, determine whether incentive awards will be adjusted for dividend equivalents and may amend or modify the terms of outstanding incentive awards (except for any prohibited “re-pricing” of options, discussed below) so long as the amended or modified terms are permitted under the 2019 plan and any adversely affected participant has consented to the amendment or modification.

In the event of any reorganization, merger, consolidation, recapitalization, liquidation, reclassification, stock dividend, stock split, combination of shares, rights offering, extraordinary dividend or divestiture (including a spin off) or any other similar change in corporate structure or shares; any purchase, acquisition, sale, disposition or write-down of a significant amount of assets or a significant business; any change in accounting principles or practices, tax laws or other such laws or provisions affecting reported results; any uninsured catastrophic losses or extraordinary non-recurring items as described in Accounting Principles Board Opinion No. 30 or in management’s discussion and analysis of financial performance appearing in our annual report to stockholders for the applicable year; or any other similar change, in each case with respect to our company or any other entity whose performance is relevant to the grant or vesting of an incentive award, the committee (or, if our company is not the surviving corporation in any such transaction, the board of directors of the surviving corporation) may, without the consent of any affected participant, amend or modify the vesting criteria of any outstanding incentive award that is based in whole or in part on the financial performance of our company (or any subsidiary or division or other subunit thereof) or such other entity so as equitably to reflect such event, with the desired result that the criteria for evaluating such financial performance of our company or such other entity will be

substantially the same (in the sole discretion of the committee or the board of directors of the surviving corporation) following such event as prior to such event; provided, however, that the amended or modified terms are permitted by the 2019 plan as then in effect.

The committee may, in its sole discretion, amend the terms of the 2019 plan or incentive awards with respect to participants resident outside of the United States or employed by a non-U.S. subsidiary in order to comply with local legal requirements, to otherwise protect our or subsidiary's interests, or to meet objectives of the 2019 plan, and may, where appropriate, establish one or more sub-plans for the purposes of qualifying for preferred tax treatment under foreign tax laws. This authority does not, however, permit the committee to take any action:

- to reserve shares or grant incentive awards in excess of the limitations provided in the 2019 plan;
- to effect any re-pricing of options, as discussed below;
- to grant options or stock appreciation rights having an exercise price less than 100% of the "fair market value" (as defined below) of one share of our common stock on the date of grant; or
- for which stockholder approval would then be required pursuant to Section 422 of the Code or the Listing Rules of the Nasdaq Stock Market or other applicable market or exchange.

Except in connection with certain specified changes in our corporate structure or shares, the committee may not, without prior approval of our stockholders, seek to effect any re-pricing of any previously granted, "underwater" option or stock appreciation right by:

- amending or modifying the terms of the underwater option or stock appreciation right to lower the exercise price;
- canceling the underwater option or stock appreciation right in exchange for cash, replacement options or stock appreciation rights having a lower exercise price, or other incentive awards; or
- repurchasing the underwater options and stock appreciation rights and granting new incentive awards under the 2019 plan.

For purposes of the 2019 plan, an option or stock appreciation right is deemed to be "underwater" at any time when the fair market value of the our common stock is less than the exercise price.

Options. The exercise price to be paid by a participant at the time an option is exercised may not be less than 100% of the fair market value of one share of our common stock on the date of grant (or 110% of the fair market value of one share of our common stock on the date of grant of an incentive option if the participant owns, directly or indirectly, more than 10% of the total combined voting power of all classes of stock of NTIC or any parent or subsidiary). However, in the event options are granted as a result of our assumption or substitution of options in a merger or acquisition, the exercise price will be the price determined by the committee pursuant to the conversion terms applicable to the transaction. At any time while the our common stock is listed on the Nasdaq Stock Market, "fair market value" under the 2019 plan means the mean between the reported high and low sale price of a share at the end of the regular trading session as reported by the Nasdaq Global Market as of the date in question (or, if no shares were traded on such date, the next preceding day on which there was such a trade). As of November 15, 2018, the closing sale price of a share of our common stock on the Nasdaq Global Market was \$ _____.

The total purchase price of the shares to be purchased upon exercise of an option will be paid entirely in cash; provided, however, that the committee may allow exercise payments to be made, in whole or in part, by delivery of a broker exercise notice (pursuant to which a broker or dealer is irrevocably instructed to sell enough shares or loan the optionee enough money to pay the exercise price and to remit such sums to us), by tender or attestation as to ownership of shares of our common stock that are acceptable to the committee, by a “net exercise” of the option or by a combination of such methods. In the case of a “net exercise” of an option, we will not require a payment of the exercise price of the option from the participant but will reduce the number of shares of our common stock issued upon the exercise by the largest number of whole shares having a fair market value that does not exceed the aggregate exercise price for the shares exercised. Any shares of our common stock tendered or covered by an attestation will be valued at their fair market value on the exercise date.

Options may be exercised in whole or in installments, as determined by the committee, and the committee may impose conditions or restrictions to the exercisability of an option, including that the participant remain continuously employed by us for a certain period or that the participant or us (or any subsidiary, division or other subunit of our company) satisfy certain specified objectives. An option may not become exercisable, nor remain exercisable after 10 years from its date of grant (five years from its date of grant in the case of an incentive option if the participant owns, directly or indirectly, more than 10% of the total combined voting power of all classes of stock of our company or any parent or subsidiary).

Options may, but need not, include a provision whereby the participant may elect at any time before the participant’s employment or service terminates to exercise the option as to any part or all of the shares subject to the option prior to the full vesting of the option. Any unvested shares so purchased will be subject to a repurchase option in favor of us and to any other restriction the committee determines to be appropriate.

Stock Appreciation Rights. A stock appreciation right is the right to receive a payment from us, in the form of shares of our common stock, cash or a combination of both, equal to the difference between the fair market value of one or more shares of our common stock and a specified exercise price of such shares. Stock appreciation rights will be subject to such terms and conditions, if any, consistent with the other provisions of the plan, as may be determined by the committee. The committee will have the sole discretion to determine the form in which payment of the economic value of stock appreciation rights will be made to a participant (i.e., cash, our common stock or any combination thereof) or to consent to or disapprove the election by a participant of the form of such payment.

The exercise price of a stock appreciation right will be determined by the committee, in its discretion, at the date of grant but may not be less than 100% of the fair market value of one share of our common stock on the date of grant, except as provided below in connection with certain “tandem” grants (as further defined below). However, in the event that stock appreciation rights are granted as a result of our assumption or substitution of stock appreciation rights in a merger or acquisition, the exercise price will be the price determined by the committee pursuant to the conversion terms applicable to the transaction.

A stock appreciation right will become exercisable at such time and in such installments as may be determined by the committee in its sole discretion at the time of grant; provided, however, that no stock appreciation right may be exercisable after 10 years from its date of grant.

Stock appreciation rights may be granted alone or in addition to other incentive awards, or in tandem with an option, either at the time of grant of the option or at any time thereafter during the term of the option. A stock appreciation right granted in tandem with an option shall cover the same number of shares of our common stock as covered by the option (or such lesser number as the committee may determine), shall be exercisable at such time or times and only to the extent that the related option is exercisable, have the

same term as the option and will have an exercise price equal to the exercise price for the option. Upon the exercise of a stock appreciation right granted in tandem with an option, the option shall be canceled automatically to the extent of the number of shares covered by such exercise; conversely, upon exercise of an option having a related stock appreciation right, the stock appreciation right will be canceled automatically to the extent of the number of shares covered by the option exercise.

Restricted Stock Awards and Restricted Stock Units. A restricted stock award and restricted stock units are awards of our common stock that vest at such times and in such installments as may be determined by the committee and, until the incentive award vest, is subject to restrictions on transferability and the possibility of forfeiture. The committee may impose such restrictions or conditions to the vesting of restricted stock awards or restricted stock units as it deems appropriate, including that the participant remain continuously employed by us for a certain period or that the participant or us (or any subsidiary, division or other subunit of our company) satisfy specified objectives. To enforce the restrictions, the committee may place a legend on the stock certificates referring to such restrictions and may take other steps to enforce the restrictions. Restricted stock units are similar to restricted stock awards except that no shares of our common stock are actually awarded on the grant date of the restricted stock unit and are denominated in shares of our common stock but paid in cash, shares of our common stock or a combination of cash and shares of our common stock.

Unless the committee determines otherwise, any dividends (including regular quarterly cash dividends) or distributions paid with respect to shares of our common stock subject to the unvested portion of a restricted stock award will be subject to the same restrictions as the shares to which such dividends or distributions relate.

In the committee's discretion, any restricted stock units awarded under the 2019 plan may carry with it a right to dividend equivalents. Such right would entitle the participant to be credited with an amount equal to all cash dividends paid on one share of our common stock while the restricted stock unit is outstanding. Dividend equivalents may be converted into additional restricted stock units and may be made subject to the same conditions and restricted as the restricted stock units to which they attach. Settlement of dividend equivalents may be made in the form of cash, in the form of shares of our common stock, or in a combination of both. Dividend equivalents as to restricted stock units will be subject to forfeiture and termination to the same extent as the corresponding restricted stock units as to which the dividend equivalents relate. In no event will participants holding restricted stock units receive any dividend equivalents on such restricted stock units until the vesting provisions of such restricted stock units lapse. Additionally, unless the 2019 plan provides otherwise, a participant will have all voting, liquidation and other rights with respect to shares of our common stock issued to the participant as a restricted stock award upon the participant becoming the holder of record of such shares as if the participant were a holder of record of shares of our unrestricted common stock. A participant will have no voting rights to any restricted stock units granted under the 2019 plan.

Performance Award. A participant may be granted one or more performance awards under the 2019 plan, and such performance awards will be subject to such terms and conditions, if any, consistent with the other provisions of the 2019 plan, as may be determined by the committee in its sole discretion, including, but not limited to, the achievement of one or more specified objectives; provided, however, that in all cases payment of the performance award will be made within two and one-half months following the end of the tax year during which receipt of the performance award is no longer subject to a "substantial risk of forfeiture" within the meaning of Section 409A of the Code, except upon certain conditions.

Performance Criteria. The committee may grant incentive awards contingent upon achievement of performance goals, including the following, without limitation: net sales; operating income; income before income taxes; income before interest, taxes, depreciation and amortization; income before income

taxes; income before interest, taxes, depreciation and amortization and other non-cash items; net income; net income per share (basic or diluted); profitability as measured by return ratios (including return on assets, return on equity, return on capital, return on investment and return on sales); cash flows; market share; cost of sales; sales, general and administrative expense, cost reduction goals; margins (including one or more of gross, operating and net income margins); stock price; total return to stockholders; economic value added; working capital and strategic plan development and implementation. The committee may select one criterion or multiple criteria for measuring performance, and the measurement may be based on NTIC, any NTIC subsidiary or NTIC's business unit performance, either absolute or by relative comparison to prior periods or other companies or any other external measure of the selected criteria.

Other Stock-Based Awards. A recipient may be granted one or more other stock-based awards under the 2019 plan, and such other-stock based awards will be subject to such terms and conditions, consistent with the other provisions of the 2019 plan, as may be determined by the committee in its sole discretion in such amounts and subject to such terms and conditions as the committee will determine. Such other-stock based awards may involve the transfer of actual shares of our common stock to participants as a bonus or in lieu of obligations to pay cash or deliver other property under the 2019 plan or under other plans or compensatory arrangements, or payment in cash or otherwise of amounts based on the value of shares of our common stock.

Change in Control. In the event a "change in control" of our company occurs, then, if approved by the committee in its sole discretion either at the time of the grant of the incentive award or at any time after such grant, all options and stock appreciation rights will become immediately exercisable in full and will remain exercisable for the remainder of their terms; all outstanding restricted stock awards will become immediately fully vested and non-forfeitable; and any conditions to the payment of restricted stock units, performance awards and other stock-based awards will lapse.

In addition, the committee in its sole discretion may determine that some or all participants holding outstanding incentive awards, whether or not exercisable or vested, will be canceled and terminated and what the participant will receive for each share of our common stock subject to such incentive award a cash payment (or the delivery of shares of stock, other securities or a combination of cash, stock and securities with a fair market value) equal to the difference, if any, between the consideration received by our stockholders in respect of a share of common stock in connection with such change in control and the purchase price per share, if any, under the incentive award, multiplied by the number of shares of our common stock subject to such incentive award; provided, however, that if such product is zero (\$0) or less or to the extent that the incentive award is not then exercisable, the incentive award may be canceled and terminated without payment therefor.

For purposes of the 2019 plan a "change in control" of our company occurs upon:

- the sale, lease, exchange or other transfer of substantially all of the assets of our company (in one transaction or in a series of related transaction) to a person or entity that is not controlled, directly or indirectly, by our company;
- a merger or consolidation to which our company is a party if our stockholders immediately prior to effective date of such merger or consolidation do not have "beneficial ownership" (as defined in Rule 13d-3 under the Exchange Act) immediately following the effective date of such merger or consolidation of more than 80% of the combined voting power of the surviving corporation's outstanding securities ordinarily having the right to vote at elections of directors; or

- a change in control of our company of a nature that would be required to be reported pursuant to Section 13 or 15(d) of the Exchange Act, whether or not our company is then subject to such reporting requirements, including, without limitation, such time as (i) any person becomes, after the effective date of the 2019 plan, the “beneficial owner” (as defined in Rule 13d-3 under the Exchange Act), directly or indirectly, of 40% or more of the combined voting power of our outstanding securities ordinarily having the right to vote at elections of directors, or (ii) individuals who constitute the Board of Directors on the effective date of the 2019 plan cease for any reason to constitute at least a majority of the Board of Directors, provided that any person becoming a director subsequent to the effective date of the 2019 plan whose election, or nomination for election by our stockholders, was approved by a vote of at least a majority of the directors comprising the Board of Directors on the effective date of the 2019 plan will, for purposes of this clause (ii), be considered as though such persons were a member of the Board of Directors on the effective date of the 2019 plan.

Effect of Termination of Employment or Other Services. If a participant ceases to be employed by, or perform other services for, us, all incentive awards held by the participant will be treated as set forth below unless otherwise expressly provided by the committee in its sole discretion in an incentive award agreement of the terms of an individual agreement or modified by the committee in its discretion as set forth below. Upon termination due to death, disability or retirement, all outstanding, exercisable options and stock appreciation rights then held by the participant will remain exercisable for a period of 12 months thereafter (but in no event after the expiration date of any such option or stock appreciation rights), all unvested restricted stock awards, all outstanding but unpaid and unvested restricted stock units, performance awards and other stock based awards then held by the participant will be terminated and forfeited. Upon termination for a reason, other than death, disability or retirement, which is not also for “cause” (as defined in the 2019 plan), all outstanding options and stock appreciation rights then held by the participant will, to the extent exercisable as of such termination, remain exercisable in full for a period of three months after such termination (but in no event after the expiration date of any such option or stock appreciation right). Also, upon such termination all options and stock appreciation rights that are not exercisable; all unvested restricted stock awards; and all outstanding but unpaid and unvested restricted stock units, performance awards and other stock based awards then held by the participant will be terminated and forfeited.

The committee may at any time (including on or after the date of grant or following termination), in connection with a participant’s termination, cause options or stock appreciation rights held by the participant to terminate, become or continue to become exercisable and/or remain exercisable, and restricted stock awards, restricted stock units, performance awards or other stock based awards then held by the participant to, terminate, vest and/or continue to vest or become free of restrictions and conditions to payment, as the case may be.

Forfeiture and Recoupment. If a participant is determined by the committee to have taken any action that would constitute “cause” or an “adverse action” during or within one year after the termination of the participant’s employment or other service with our company or a subsidiary, all rights of the participant under the 2019 plan and any agreements evidencing an award then held by the participant will terminate and be forfeited and the committee may require the participant to surrender and return to us any shares received, and/or to disgorge any profits or any other economic value made or realized by the participant in connection with any awards or any shares issued upon the exercise or vesting of any awards during or within one year after the termination of the participant’s employment or other service. Additionally, as applicable, we may defer the exercise of any option or stock appreciation right for a period of up to six months after receipt of a participant’s written notice of exercise or the issuance of share certificates upon the vesting of any incentive award for a period of up to six months after the date of such vesting in order for the committee to make any determination as to the existence of cause or an adverse action.

“Cause,” with respect to any participant, unless otherwise stated in a participant’s employment or other service agreement, means (i) dishonesty, fraud, misrepresentation, embezzlement or other act of dishonesty with respect to our company or any subsidiary, (b) any unlawful or criminal activity of a serious nature, (c) any intentional and deliberate breach of a duty or duties that, individually or in the aggregate, are material in relation to the participant’s overall duties, or (d) any material breach of any employment, service, confidentiality or non-compete agreement entered into with us or any of our subsidiaries.

An “adverse action” includes any of the following actions or conduct that the committee determines to be injurious, detrimental, prejudicial or adverse to our interests: (i) disclosing any confidential information of our company or any subsidiary to any person not authorized to receive it; (ii) engaging, directly or indirectly, in any commercial activity that in the judgment of the committee competes with our business or the business of any of our subsidiaries; or (iii) interfering with our relationships or the relationships of our subsidiaries and our and their respective employees, independent contractors, customers, prospective customers and vendors.

In addition, if we are required to prepare an accounting restatement due to our material noncompliance, as a result of misconduct, with any financial reporting requirement under the securities laws, then any participant who is one of the individuals subject to automatic forfeiture under Section 304 of the Sarbanes-Oxley Act of 2002 will reimburse us for the amount of any award received by such individual under the plan during the 12-month period following the first public issuance or filing with the SEC, as the case may be, of the financial document embodying such financial reporting requirement. NTIC also may seek to recover the amount of any incentive award received as required by the provisions of the Dodd-Frank Wall Street Reform and Consumer Protection Act or any other clawback, forfeiture or recoupment provision required by applicable law or under the requirements of any stock exchange or market upon which our shares of common stock are then listed or traded. In addition, all incentive awards under the 2019 plan will be subject to forfeiture or other penalties pursuant to any clawback or forfeiture policy of NTIC, as in effect from time to time, and such forfeiture and/or penalty conditions or provisions as determined by the committee. NTIC adopted a clawback policy in August 2018.

Dividend Rights. In the committee’s discretion, certain incentive awards may carry with it a right to dividend equivalents. Such right would entitle the participant to be credited with an amount equal to all cash dividends paid on one share of our common stock while the incentive award is outstanding. Dividend equivalents may be converted into additional restricted stock units or other incentive awards and may be made subject to the same conditions and restricted as the restricted stock units or other incentive awards to which they attach. Settlement of dividend equivalents may be made in the form of cash, in the form of shares of our common stock, or in a combination of both. Dividend equivalents as to restricted stock units or other incentive awards will be subject to forfeiture and termination to the same extent as the corresponding restricted stock units as to which the dividend equivalents relate. In no event will dividends be paid out on unvested awards or provided with performance awards.

Term; Termination; Amendments. Unless terminated earlier, the 2019 plan will terminate at midnight on the day before the 10th anniversary of its approval by our stockholders. Incentive awards outstanding at the time the 2019 plan is terminated may continue to be exercised, earned or become free of restriction, according to their terms. The Board may suspend or terminate the 2019 plan or any portion of the plan at any time. In addition to the committee’s authority to amend the 2019 plan with respect to participants resident outside of the United States or employed by a non-U.S. subsidiary, the Board may amend the 2019 plan from time to time in order that incentive awards under the 2019 plan will conform to any change in applicable laws or regulations or in any other respect that the Board may deem to be in our best interests; provided, however, that no amendments to the 2019 plan will be effective without stockholder approval, if it is required under Section 422 of the Code or the Listing Rules of the Nasdaq Stock Market,

or if the amendment seeks to increase the number of shares reserved for issuance under the 2019 plan (other than as a result of a permitted adjustment upon certain corporate events, such as stock splits) or to modify the prohibitions on underwater option re-pricing discussed above. Termination, suspension or amendment of the 2019 plan will not adversely affect any outstanding incentive award without the consent of the affected participant, except for adjustments in the event of changes in our capitalization or a “change in control” of our company.

Transferability. In general, no right or interest in any incentive award may be assigned or transferred by a participant, except by will or the laws of descent and distribution, or subjected to any lien or otherwise encumbered. However, a participant is entitled to designate a beneficiary to receive an incentive award on such participant’s death, and in the event of such participant’s death, payment of any amounts due under the 2019 plan will be made to, and exercise of any options or stock appreciation rights may be made by, such beneficiary. Additionally, upon a participant’s request, the committee may permit a participant to transfer all or a portion of a non-statutory option, other than for value, to certain of the participant’s family members or related family trusts, foundations or partnerships. Permitted transferees of non-statutory options will remain subject to all the terms and conditions of the incentive award applicable to the participant.

Federal Income Tax Consequences

The following is a general summary, as of the date of this proxy statement, of the federal income tax consequences to participants and NTIC of transactions under the 2019 plan. This summary is intended for the information of stockholders considering how to vote at the annual meeting and not as tax guidance to participants in the 2019 plan, as the consequences may vary with the types of grants made, the identity of the participant and the method of payment or settlement. The summary does not address the effects of other federal taxes or taxes imposed under state, local or foreign tax laws. Participants are encouraged to seek the advice of a qualified tax advisor regarding the tax consequences of participation in the 2019 plan.

Incentive Stock Options. With respect to incentive stock options, generally, the stock option holder is not taxed, and we are not entitled to a deduction, on either the grant or the exercise of an incentive stock option so long as the requirements of Section 422 of the Code continue to be met. If the stock option holder meets the employment requirements and does not dispose of the shares of our common stock acquired upon exercise of an incentive stock option until at least one year after date of the exercise of the stock option and at least two years after the date the stock option was granted, gain or loss realized on sale of the shares will be treated as long-term capital gain or loss. If the shares of our common stock are disposed of before those periods expire, which is called a disqualifying disposition, the stock option holder will be required to recognize ordinary income in an amount equal to the lesser of (i) the excess, if any, of the fair market value of our common stock on the date of exercise over the exercise price, or (ii) if the disposition is a taxable sale or exchange, the amount of gain realized. Upon a disqualifying disposition, we will generally be entitled, in the same tax year, to a deduction equal to the amount of ordinary income recognized by the stock option holder, assuming that a deduction is allowed under Section 162(m) of the Code.

Non-Statutory Stock Options. The grant of a stock option that does not qualify for treatment as an incentive stock option, which is generally referred to as a non-statutory stock option, is generally not a taxable event for the stock option holder. Upon exercise of the stock option, the stock option holder will generally be required to recognize ordinary income in an amount equal to the excess of the fair market value of our common stock acquired upon exercise (determined as of the date of exercise) over the exercise price of the stock option, and we will be entitled to a deduction in an equal amount in the same tax year, assuming that a deduction is allowed under Section 162(m) of the Code. At the time of a subsequent sale or disposition of shares obtained upon exercise of a non-statutory stock option, any gain

or loss will be a capital gain or loss, which will be either a long-term or short-term capital gain or loss, depending on how long the shares have been held.

SARs. The grant of an SAR will not cause the participant to recognize ordinary income or entitle us to a deduction for federal income tax purposes. Upon the exercise of an SAR, the participant will recognize ordinary income in the amount of the cash or the value of shares payable to the participant (before reduction for any withholding taxes), and we will receive a corresponding deduction in an amount equal to the ordinary income recognized by the participant, assuming that a deduction is allowed under Section 162(m) of the Code.

Restricted Stock Awards, Restricted Stock Units and Other Stock-Based Awards. The federal income tax consequences with respect to restricted stock awards, restricted stock units, performance awards, and other stock-based awards depend on the facts and circumstances of each award, including, in particular, the nature of any restrictions imposed with respect to the awards. In general, if an award of stock granted to the participant is subject to a “substantial risk of forfeiture” (*e.g.*, the award is conditioned upon the future performance of substantial services by the participant) and is nontransferable, a taxable event occurs when the risk of forfeiture ceases or the awards become transferable, whichever first occurs. At such time, the participant will recognize ordinary income to the extent of the excess of the fair market value of the stock on such date over the participant’s cost for such stock (if any), and the same amount is deductible by us, assuming that a deduction is allowed under Section 162(m) of the Code. Under certain circumstances, the participant, by making an election under Section 83(b) of the Code, can accelerate federal income tax recognition with respect to an award of stock that is subject to a substantial risk of forfeiture and transferability restrictions, in which event the ordinary income amount and our deduction will be measured and timed as of the grant date of the award. If the stock award granted to the participant is not subject to a substantial risk of forfeiture or transferability restrictions, the participant will recognize ordinary income with respect to the award to the extent of the excess of the fair market value of the stock at the time of grant over the participant’s cost, if any, and the same amount is deductible by us, assuming that a deduction is allowed under Section 162(m) of the Code. If a stock unit award or other stock-based award is granted but no stock is actually issued to the participant at the time the award is granted, the participant will recognize ordinary income at the time the participant receives the stock free of any substantial risk of forfeiture (or receives cash in lieu of such stock) and the amount of such income will be equal to the fair market value of the stock at such time over the participant’s cost, if any, and the same amount is then deductible by us, assuming that a deduction is allowed under Section 162(m) of the Code.

Annual Performance Cash Awards and Other Cash-Based Awards. Annual performance cash awards and other cash-based awards will be taxable as ordinary income to the participant in the amount of the cash received by the participant (before reduction for any withholding taxes), and we will receive a corresponding deduction in an amount equal to the ordinary income recognized by the participant, assuming that a deduction is allowed under Section 162(m) of the Code.

Withholding Obligations. We are entitled to withhold and deduct from future wages of the participant, to make other arrangements for the collection of, or to require the recipient to pay to us, an amount necessary for us to satisfy the recipient’s federal, state or local tax withholding obligations with respect to awards granted under the 2019 plan. Withholding for taxes may be calculated based on the maximum applicable tax rate for the participant’s jurisdiction or such other rate that will not trigger a negative accounting impact on NTIC. The Compensation Committee may permit a participant to satisfy a tax obligation by withholding shares of common stock underlying an award, tendering previously acquired shares, delivery of a broker exercise notice or a combination of these methods.

Code Section 409A. A grant may be subject to a 20% penalty tax, in addition to ordinary income tax, at the time the grant becomes vested, plus an interest penalty tax, if the grant constitutes deferred

compensation under Section 409A of the Code and the requirements of Section 409A of the Code are not satisfied.

Code Section 162(m). Section 162(m) of the Code prohibits public companies for deducting more than \$1 million per year in compensation paid to an individual who is a “covered employee.” The Tax Cut and Jobs Act, signed into law on December 22, 2017, or Tax Act, amended Section 162(m), effective for tax years beginning after December 31, 2017, (i) to expand the definition of a “covered employee” to include any person who was the Chief Executive Officer or the Chief Financial Officer at any time during the year and the three most highly compensated officers (other than the Chief Executive Officer or Chief Financial Officer) who were employed at any time during the year whether or not the compensation is reported in the Summary Compensation Table included in our proxy statement for our Annual Meeting of Stockholders; (ii) to treat any individual who is considered a covered employee at any time during a tax year beginning after December 31, 2016, as remaining a covered employee permanently; and (iii) to eliminate the performance-based compensation exception to the \$1 million deduction limit.

Excise Tax on Parachute Payments. Unless otherwise provided in a separate agreement between a participant and NTIC, if, with respect to a participant, the acceleration of the vesting of an award or the payment of cash in exchange for all or part of an award, together with any other payments that such participant has the right to receive from NTIC, would constitute a “parachute payment” then the payments to such participant will be reduced to the largest amount as will result in no portion of such payments being subject to the excise tax imposed by Section 4999 of the Code. Such reduction, however, will only be made if the aggregate amount of the payments after such reduction exceeds the difference between the amount of such payments absent such reduction minus the aggregate amount of the excise tax imposed under Section 4999 of the Code attributable to any such excess parachute payments. If such provisions are applicable and if an employee will be subject to a 20% excise tax on any “excess parachute payment” pursuant to Section 4999 of the Code, we will be denied a deduction with respect to such excess parachute payment pursuant to Section 280G of the Code.

New Plan Benefits

It is not presently possible to determine the benefits or amounts that will be received by or allocated to participants under the 2019 plan or would have been received by or allocated to participants for the last completed fiscal year if the 2019 plan had then been in effect because awards under the 2019 plan will be made at the discretion of the committee. Further, since any automatic awards to our non-employee directors will depend on the non-employee directors’ continued service and the Board’s discretion to vary the type and terms of those awards in the future, it is not possible to determine the exact number of shares of our common stock that will be subject to such awards. However, under the policy currently in effect, each non-employee director who is expected to stand for re-election at the next Annual Meeting of Stockholders will receive a stock option valued at \$50,000 on each September 1st and our Chairman of the Board will receive an additional stock option valued at \$10,000.

Board of Directors Recommendation

The Board of Directors unanimously recommends that our stockholders vote **FOR** approval of the Northern Technologies International Corporation 2019 Stock Incentive Plan.

PROPOSAL THREE—ADVISORY VOTE ON EXECUTIVE COMPENSATION

Introduction

The Board of Directors is providing stockholders with an advisory vote on executive compensation pursuant to the Dodd-Frank Wall Street Consumer Protection Act and Section 14A of the Securities Exchange Act of 1934, as amended. This advisory vote, commonly known as a “say-on-pay” vote, is a non-binding vote on the compensation paid to our named executive officers as set forth in the “*Executive Compensation*” section of this proxy statement beginning on page 53. At the 2018 Annual Meeting of Stockholders held on January 12, 2018, 97% of the votes cast by our stockholders were in favor of our say-on-pay vote. The Compensation Committee generally believes that such results affirmed stockholder support of our approach to executive compensation.

Our executive compensation program is generally designed to attract, retain, motivate and reward highly qualified and talented executive officers. The underlying core principle of our executive compensation program is to link pay to performance and align the interests of our executives with those of our stockholders by providing compensation opportunities that are tied directly to the achievement of financial and other performance goals and long-term stock price performance. The “*Executive Compensation*” section of this proxy statement, which begins on page 53, describes our executive compensation program and the executive compensation decisions made by the Compensation Committee and Board of Directors for fiscal 2018 in more detail. Important considerations include:

- A significant portion of the compensation paid or awarded to our named executive officers in fiscal 2018 was “performance-based” or “at-risk” compensation that is tied directly to the achievement of financial and other performance goals or long-term stock price performance.
- Equity-based compensation granted to our named executive officers was in the form of stock options that were subject to three-year vesting and aligns the long-term interests of our executives with the long-term interests of our stockholders.
- Our executive officers receive only modest perquisites and have modest severance and change-in-control arrangements.
- We recently adopted a clawback policy.
- We do not provide any tax “gross-up” payments.

We believe that our executive compensation program and related decisions link pay to performance. For example, our fiscal 2018 total net sales increased over 30.0% to \$51,424,821 during fiscal 2018 compared to fiscal 2017, and our net income attributable to NTIC increased to \$6,701,366, or \$1.43 per diluted common share, for fiscal 2017 compared to \$3,422,126, or \$0.75 per diluted common share, for fiscal 2017. The total compensation for our named executive officers for fiscal 2018 increased approximately 47% compared to fiscal 2017.

Accordingly, the Board of Directors recommends that our stockholders vote in favor of the say-on-pay vote as set forth in the following resolution:

RESOLVED, that our stockholders approve, on an advisory basis, the compensation paid to our named executive officers, as disclosed in this proxy statement.

Stockholders are not ultimately voting to approve or disapprove the recommendation of the Board of Directors. As this is an advisory vote, the outcome of the vote is not binding on us with respect to future executive compensation decisions, including those relating to our named executive officers, or otherwise. The Compensation Committee and Board of Directors expect to take into account the outcome of this advisory vote when considering future executive compensation decisions.

In accordance with the result of the advisory vote on the frequency of the say-on-pay vote, which was conducted at our 2014 Annual Meeting of Stockholders, the Board of Directors has determined that we will conduct an executive compensation advisory vote on an annual basis. Accordingly, after this Annual Meeting, the next say-on-pay vote will occur at our next Annual Meeting of Stockholders anticipated to be held in January 2020. We anticipate that the next say-on-frequency vote will also occur at our 2020 Annual Meeting of Stockholders.

Board Recommendation

The Board of Directors unanimously recommends a vote **FOR** approval, on an advisory basis, of the compensation paid to our named executive officers, as disclosed in this proxy statement.

**PROPOSAL FOUR—RATIFICATION OF SELECTION OF
INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM**

Selection of Independent Registered Public Accounting Firm

The Audit Committee of the Board of Directors selects our independent registered public accounting firm. In this regard, the Audit Committee evaluates the qualifications, performance and independence of our independent registered public accounting firm and determines whether to re-engage our current independent registered public accounting firm. As part of its evaluation, the Audit Committee considers, among other factors, the quality and efficiency of the services provided by the firm, including the performance, technical expertise, and industry knowledge of the lead audit partner and the audit team assigned to our account; the overall strength and reputation of the firm; its global capabilities relative to our business; and its knowledge of our operations. Upon consideration of these and other factors, the Audit Committee has selected Baker Tilly Virchow Krause, LLP to serve as our independent registered public accounting firm for the fiscal year ending August 31, 2019.

Although it is not required to do so, the Board of Directors is asking our stockholders to ratify the Audit Committee’s selection of Baker Tilly Virchow Krause, LLP. If our stockholders do not ratify the selection of Baker Tilly Virchow Krause, LLP, another independent registered public accounting firm will be considered by the Audit Committee. Even if the selection is ratified by our stockholders, the Audit Committee in its discretion may change the appointment at any time during the year, if it determines that such a change would be in the best interests of NTIC and our stockholders.

Representatives of Baker Tilly Virchow Krause, LLP will be present at the Annual Meeting to respond to appropriate questions. They also will have the opportunity to make a statement if they wish to do so.

Audit, Audit-Related, Tax and Other Fees

The following table presents the aggregate fees billed to us by Baker Tilly Virchow Krause, LLP for the fiscal years ended August 31, 2018 and August 31, 2017.

	Aggregate Amount Billed by Baker Tilly Virchow Krause, LLP (\$)	
	Fiscal 2018	Fiscal 2017
Audit Fees ⁽¹⁾	\$ 493,832	\$ 326,404
Audit-Related Fees.....	—	—
Tax Fees	—	—
All Other Fees	—	—

(1) These fees consisted of the audit of our annual financial statements by year, review of financial statements included in our quarterly reports on Form 10-Q and other services normally provided in connection with statutory and regulatory filings or engagements.

Audit Committee Pre-Approval Policies and Procedures

All services rendered by Baker Tilly Virchow Krause, LLP to NTIC were permissible under applicable laws and regulations and all services provided to NTIC, other than de minimis non-audit services allowed under applicable law, were approved in advance by the Audit Committee. The Audit Committee has not adopted any formal pre-approval policies and procedures.

Board Recommendation

The Board of Directors unanimously recommends that stockholders vote **FOR** ratification of the selection of Baker Tilly Virchow Krause, LLP, as our independent registered public accounting firm for the fiscal year ending August 31, 2019.

PROPOSAL FIVE—RATIFICATION OF SHARE INCREASE AMENDMENT

Background

At the 2018 Annual Meeting of Stockholders held on January 12, 2018, we sought stockholder approval of an amendment to our Restated Certificate of Incorporation to increase the authorized number of shares of our common stock from 10,000,000 shares to 15,000,000 shares (which we refer to as the “share increase amendment”). At that meeting, the inspector of election determined that the proposal to approve the share increase amendment received the requisite stockholder approval and we subsequently filed a Certificate of Amendment to our Restated Certificate of Incorporation reflecting the share increase amendment with the Secretary of State of the State of Delaware on January 16, 2018. Although we believe that the share increase amendment from last year’s meeting was properly approved and is effective, because the description of the authority of brokers to vote on proposals without instruction in the proxy statement for last year’s meeting may create some uncertainty as to the effect of the vote obtained at last year’s meeting, and out of an abundance of caution, we are asking our stockholders at the Annual Meeting to ratify the filing and effectiveness of the Certificate of Amendment to our Restated Certificate of Incorporation filed with the Secretary of State of the State of Delaware on January 16, 2018 pursuant to Delaware law in order to eliminate any uncertainty related to the effectiveness of the share increase amendment.

If the ratification proposal is approved by our stockholders and becomes effective, the ratification will be retroactive to January 16, 2018, the time of the filing of the share increase amendment with the Secretary of State of State of Delaware. If the ratification proposal is not approved by the requisite vote of stockholders, we will not be able to file the Certificate of Validation referred to below with the Delaware Secretary of State and the share increase amendment will not become effective in accordance with Section 204 of the DGCL. The failure to approve the ratification proposal may leave us exposed to potential claims that the vote on the share increase amendment did not receive requisite stockholder approval; and, therefore, the share increase amendment was not validly adopted. This could inhibit our ability to issue shares of our common stock in the future.

Board of Directors Approved the Ratification of the Share Increase Amendment

Section 204 of the DGCL, which became effective on April 1, 2014, and which was recently amended effective August 1, 2018, allows a Delaware corporation, by following specified procedures, to validate a potentially defective corporate act retroactive to the date the defective corporate act was originally taken.

NTIC does not believe that the filing or effectiveness of the share increase amendment is invalid or ineffective. However, on November 16, 2018, the Board of Directors determined that it would be advisable and in the best interests of the company and our stockholders to ratify the filing and effectiveness of the share increase amendment pursuant to DGCL Section 204 in an abundance of caution and in order to eliminate any uncertainty related to its effectiveness. The Board of Directors adopted the resolutions (attached hereto as Appendix A and incorporated herein by reference) identifying the filing and effectiveness of the share increase amendment as a potentially defective corporate act under Section 204 of the DGCL, identifying January 16, 2018 (the date the share increase amendment was filed with the Secretary of State of the State of Delaware) as the date of the potentially defective corporate act, identifying the nature of the potential failure of authorization in respect thereof (the potential failure of the proposal to approve the share increase amendment to have received the requisite vote of the stockholders in accordance with Section 242 of the DGCL), and approving the ratification proposal. The Board of Directors further recommended that our stockholders approve the ratification proposal, and directed that the ratification proposal be submitted to our stockholders for approval.

The Board of Directors further directed that notice of the Annual Meeting be provided (i) to all stockholders of NTIC as of the record date for the Annual Meeting, and (ii) as required by Section 204 of the DGCL, to all NTIC stockholders of record as of November 17, 2017, which was the record date for our Annual Meeting of Stockholders held last year, other than those whose identities or addresses could not be determined from our corporate records. The Board of Directors directed that the notice of meeting contain the statement required by Section 204 of the DGCL that any claim that the filing and effectiveness of the share increase amendment to be ratified pursuant to the ratification proposal is void or voidable due to the failure to receive the requisite stockholder vote for its adoption, or that the Delaware Court of Chancery should declare in its discretion that the ratification proposal not be effective or be effective only on certain conditions, must be brought within 120 days from the validation effective time, which, in the case of the ratification of the share increase amendment, will be the time at which a Certificate of Validation filed in respect of the ratification proposal becomes effective under the DGCL.

Filing of a Certificate of Validation

Upon the receipt of the required vote of the stockholders to approve the ratification proposal, we will file a Certificate of Validation with respect to the share increase amendment with the Secretary of State of the State of Delaware. The time that the filing of this Certificate of Validation with the Secretary of State of the State of Delaware becomes effective in accordance with the DGCL will be the validation effective time of the ratification proposal within the meaning of Section 204 of the DGCL.

Effect of Ratification Retroactive Validation of the Share Increase Amendment

When the Certificate of Validation becomes effective in accordance with the DGCL, the share increase amendment will no longer be deemed void or voidable as a result of the potential failure of authorization described above, and the effect of the ratification will be retroactive to January 16, 2018, which was the time of the original filing of the share increase amendment with the Secretary of State of the State of Delaware.

Purpose and Effect of Share Increase Amendment

The share increase amendment amended our Restated Certificate of Incorporation to increase the authorized number of shares of our common stock from 10,000,000 shares to 15,000,000 shares. Our Board of Directors believes that the additional authorized shares of common stock provided in the share increase amendment will provide us with the necessary flexibility to issue shares in the future for various corporate purposes and enable us to take timely advantage of market conditions and opportunities without the delay and expense associated with convening a special stockholders' meeting for such purpose, except as otherwise required by law and the rules of the Nasdaq Stock Market. These corporate purposes, include, but are not limited to, future stock splits and stock dividends; capital-raising or financing transactions; potential strategic transactions, including mergers, acquisitions, and other business combinations; grants and awards under equity compensation plans; and other general corporate purpose transactions.

In the past, we have used authorized but unissued shares in connection with equity financings and for issuance pursuant to equity compensation plans. Although the Board of Directors has discussed from time to time a possible stock split effected in the form of a share dividend, the Board of Directors has not approved such a split. The increase in the number of authorized shares reflected in the share increase amendment will allow for a sufficient authorized but unissued share amount to accommodate a future stock split effected in the form of a share dividend if the Board of Directors determines to proceed with such a split. Other than shares of our common stock that have been reserved for future issuance under our equity compensation plans and these discussions regarding a possible future stock split effected in the

form of a share dividend, we currently do not have any plans, commitments, arrangements, understandings or agreements to issue any currently authorized and unissued shares of our common stock, or any of the additional shares of common stock authorized by the share increase amendment.

All of the additional shares resulting from the increase in our authorized common stock as reflected by the share increase amendment are of the same class with the same dividend, voting, liquidation and similar rights as the shares of common stock presently outstanding. The shares are unreserved and available for issuance. No further authorization for the issuance of common stock by stockholder vote is required under our existing Restated Certificate of Incorporation, and none would be required prior to the issuance of the additional shares of common stock by NTIC. Stockholders have no preemptive rights to acquire any shares issued by NTIC under its existing Restated Certificate of Incorporation, and stockholders would not acquire any such rights with respect to any additional shares under the share increase amendment.

Time Limitations on Legal Challenges to the Ratification of the Share Increase Amendment

If the ratification proposal becomes effective, under the DGCL, any claim that the share increase amendment ratified pursuant to the ratification proposal is void or voidable due to the failure to receive the requisite stockholder vote for its adoption, or that the Delaware Court of Chancery should declare in its discretion that the ratification proposal not be effective or be effective only on certain conditions, must be brought within 120 days from the time that the filing of the Certificate of Validation with the Secretary of State of the State of Delaware becomes effective in accordance with the DGCL.

Consequences if the Ratification Proposal is Not Approved by the Stockholders

If the ratification proposal is not approved by the requisite vote of our stockholders, we will not be able to file the Certificate of Validation in order to ratify the filing and effectiveness of the share increase amendment pursuant to Section 204 of the DGCL. The failure to ratify the filing and effectiveness of the share increase amendment under Section 204 may leave us exposed to claims that (i) the vote on the share increase amendment was not correctly tabulated; (ii) that the share increase amendment therefore was not validly adopted, and (iii) as a result, we do not have sufficient authorized but unissued shares of common stock to permit certain future stock splits and stock dividends; capital-raising or financing transactions; potential strategic transactions, including mergers, acquisitions, and other business combinations; grants and awards under equity compensation plans; and other general corporate purpose transactions. An inability to issue our common stock in the future could expose us to significant claims and have a material adverse effect on our ability to operate our business.

Board Recommendation

The Board of Directors unanimously recommends a vote **FOR** the approval of the ratification proposal.

STOCK OWNERSHIP

Beneficial Ownership of Significant Stockholders and Management

The following table sets forth information known to us with respect to the beneficial ownership of our common stock as of November 15, 2018, the record date for the Annual Meeting, for:

- each person known by us to beneficially own more than five percent of the outstanding shares of our common stock;
- each of our directors;
- each of the executive officers named in the Summary Compensation Table included later in this proxy statement under “*Executive Compensation*” and
- all of our current directors and executive officers as a group.

The number of shares beneficially owned by a person includes shares subject to options held by that person that are currently exercisable or that become exercisable within 60 days of November 15, 2018. Percentage calculations assume, for each person and group, that all shares that may be acquired by such person or group pursuant to options currently exercisable or that become exercisable within 60 days of November 15, 2018 are outstanding for the purpose of computing the percentage of common stock owned by such person or group. However, such unissued shares of common stock described above are not deemed to be outstanding for calculating the percentage of common stock owned by any other person.

Except as otherwise indicated, the persons in the table below have sole voting and investment power with respect to all shares of common stock shown as beneficially owned by them, subject to community property laws where applicable and subject to the information contained in the notes to the table.

Title of Class	Name and Address of Beneficial Owner ⁽¹⁾	Amount and Nature of Beneficial Ownership ⁽²⁾	Percent of Class
Directors and Officers:			
Common Stock	Barbara D. Colwell	20,500	*
Common Stock	Soo-Keong Koh	36,666	*
Common Stock	Sunggyu Lee, Ph.D.	4,000	*
Common Stock	G. Patrick Lynch ⁽³⁾	682,775	14.9%
Common Stock	Ramani Narayan, Ph.D.	39,500	*
Common Stock	Richard J. Nigon	45,300	1.0%
Common Stock	Konstantin von Falkenhausen	23,600	*
Common Stock	Matthew C. Wolsfeld	99,735	2.2%
Common Stock	All current directors and executive officers as a group (8 persons) ⁽⁴⁾	952,076	20.1%
Significant Beneficial Owners:			
Common Stock	Inter Alia Holding Company ⁽⁵⁾ 23205 Mercantile Road Beachwood, Ohio 44122	601,667	13.2%
Common Stock	Perritt Capital Management, Inc. and Perritt Funds, Inc. ⁽⁶⁾ 300 South Wacker Drive, Suite 2880 Chicago, Illinois 60606	262,215	5.8%

* Represents beneficial ownership of less than one percent.

- (1) The business address for each of the directors and officers of NTIC is c/o Northern Technologies International Corporation, 4201 Woodland Road, Circle Pines, Minnesota 55014.
- (2) Includes for the persons listed below the following shares of common stock subject to options held by such persons that are currently exercisable or become exercisable within 60 days of November 15, 2018:

Name	Shares of Common Stock Underlying Stock Options
Directors	
Barbara D. Colwell	19,000
Soo-Keong Koh	20,000
Sunggyu Lee, Ph.D.	4,000
G. Patrick Lynch	44,056
Ramani Narayan, Ph.D.....	20,000
Richard J. Nigon	30,000
Konstantin von Falkenhausen	23,000
Named Executive Officers	
G. Patrick Lynch	44,056
Matthew C. Wolsfeld	32,564
All current directors and executive officers as a group (8 persons)	192,620

- (3) Includes 601,667 shares held by Inter Alia Holding Company. See note (5) below.
- (4) The amount beneficially owned by all current directors and executive officers as a group includes 601,667 shares held of record by Inter Alia Holding Company. See notes (3) above and (5) below.
- (5) According to a Schedule 13D/A filed with the SEC on December 2, 2011, Inter Alia Holding Company is an entity of which G. Patrick Lynch, our President and Chief Executive Officer, is a 47% stockholder. G. Patrick Lynch shares equal voting and dispositive power over such shares with two other members of his family. Inter Alia Holding Company's address is 23205 Mercantile Road, Beachwood, Ohio 44122.
- (6) According to a Schedule 13G/A filed with the SEC on February 5, 2018, Perritt Capital Management, Inc., in its capacity as investment adviser, may be deemed the beneficial owner of 262,215 shares, which are owned by investment advisory client(s). Perritt Capital Management, Inc. has sole voting power and sole dispositive power over 24,215 shares and has shared voting power and shared dispositive power over 238,000 shares with Perritt Funds, Inc., an investment company.

Section 16(a) Beneficial Ownership Reporting Compliance

Section 16(a) of the Exchange Act requires our directors, executive officers and all persons who beneficially own more than 10% of the outstanding shares of our common stock to file with the SEC initial reports of ownership and reports of changes in ownership of our common stock. Executive officers, directors and greater than 10% beneficial owners are also required to furnish NTIC with copies of all Section 16(a) forms they file. To our knowledge, based upon a review of the copies of such reports furnished to us and written representations that no other reports were required, during the fiscal year ended August 31, 2018, none of our directors or executive officers or beneficial owners of greater than 10% of our common stock failed to file on a timely basis the forms required by Section 16 of the Exchange Act.

Securities Authorized for Issuance Under Equity Compensation Plans

The following table summarizes outstanding options and other awards under NTIC's equity compensation plans as of August 31, 2018. NTIC's equity compensation plans as of August 31, 2018 were the Northern Technologies International Corporation Amended and Restated 2007 Stock Incentive Plan and the Northern Technologies International Corporation Employee Stock Purchase Plan. Except for automatic annual grants of \$50,000 in options to purchase shares of NTIC common stock to NTIC's directors in consideration for their services as directors of NTIC, an automatic annual grant of \$10,000 in options to purchase shares of NTIC common stock to NTIC's Chairman of the Board in consideration for his services as Chairman on the first day of each fiscal year and automatic initial pro rata grants of \$50,000 in options to purchase shares of NTIC common stock to NTIC's new directors in consideration for their services as directors of NTIC, options and other awards granted in the future under the Northern Technologies International Corporation Amended and Restated 2007 Stock Incentive Plan or the new Northern Technologies International Corporation 2019 Stock Incentive Plan, if approved by NTIC's stockholders, are within the discretion of the Board of Directors and the Compensation Committee of the Board of Directors and therefore cannot be ascertained at this time.

Plan Category	(a) Number of Securities to be Issued Upon Exercise of Outstanding Options, Warrants and Rights	(b) Weighted-Average Exercise Price of Outstanding Options, Warrants and Rights	(c) Number of Securities Remaining Available for Future Issuance Under Equity Compensation Plans (excluding securities reflected in column (a))
Equity compensation plans approved by security holders	348,703 ⁽¹⁾⁽²⁾	\$14.55	188,044 ⁽³⁾
Equity compensation plans not approved by security holders	—	—	—
Total	348,703 ⁽¹⁾⁽²⁾	\$14.55	188,044 ⁽³⁾

(1) Amount includes shares of NTIC common stock issuable upon the exercise of stock options outstanding as of August 31, 2018 under the Northern Technologies International Corporation Amended and Restated 2007 Stock Incentive Plan.

(2) Excludes employee stock purchase rights accruing under the Northern Technologies International Corporation Employee Stock Purchase Plan. Under such plan, each eligible employee may purchase up to 2,000 shares of NTIC common stock at semi-annual intervals on February 28th or 29th (as the case may be) and August 31st each year at a purchase price per share equal to 90% of the lower of (i) the closing sales price per share of NTIC common stock on the first day of the offering period or (ii) the closing sales price per share of NTIC common stock on the last day of the offering period.

(3) Amount includes 140,417 shares remaining available at August 31, 2018 for future issuance under Northern Technologies International Corporation Amended and Restated 2007 Stock Incentive Plan and 47,627 shares available at August 31, 2018 for future issuance under the Northern Technologies International Corporation Employee Stock Purchase Plan.

CORPORATE GOVERNANCE

Corporate Governance Guidelines

The Board of Directors has adopted Corporate Governance Guidelines. A copy of these Corporate Governance Guidelines can be found on the “Investor Relations—Corporate Governance” section of our corporate website *www.ntic.com*. Among the topics addressed in our Corporate Governance Guidelines are:

- Board size, composition and qualifications;
- Selection of directors;
- Board leadership;
- Board committees;
- Board and committee meetings;
- Executive sessions of independent directors;
- Meeting attendance by directors and non-directors;
- Appropriate information and access;
- Ability to retain advisors;
- Conflicts of interest and director independence;
- Board interaction with corporate constituencies;
- Change of principal occupation and board memberships;
- Retirement and term limits;
- Retirement and resignation policy;
- Board compensation;
- Stock ownership by directors and executive officers;
- Loans to directors and executive officers;
- CEO evaluation;
- Board and committee evaluation;
- Director continuing education;
- Succession planning;
- Related person transactions; and
- Communications with directors.

Board Leadership Structure

Under our Corporate Governance Guidelines, the office of Chairman of the Board and Chief Executive Officer may or may not be held by one person. The Board of Directors believes it is best not to have a fixed policy on this issue and that it should be free to make this determination based on what it believes is best under the circumstances. However, the Board of Directors strongly endorses the concept of an independent director being in a position of leadership. Under our Corporate Governance Guidelines, if at any time the Chief Executive Officer and Chairman of the Board positions are held by the same person, the Board of Directors will elect an independent director as a lead independent director.

G. Patrick Lynch currently serves as our President and Chief Executive Officer and Richard J. Nigon serves as our non-executive Chairman of the Board. Because the Chief Executive Officer and Chairman of the Board positions currently are not held by the same person, we do not have a lead independent director. We currently believe this leadership structure is in the best interests of our company and our stockholders and strikes the appropriate balance between the Chief Executive Officer’s responsibility for the strategic direction, day-to-day leadership and performance of our company and the Chairman’s

responsibility to provide oversight of our company’s corporate governance and guidance to our Chief Executive Officer and to set the agenda for and preside over Board of Directors meetings.

At each regular Board of Directors meeting, our independent directors meet in executive session with no company management present during a portion of the meeting. After each such executive session, our Chairman of the Board provides our Chief Executive Officer with any actionable feedback from our independent directors.

Director Independence

The Board of Directors has affirmatively determined that five of NTIC’s current seven directors are “independent directors” under the Listing Rules of the Nasdaq Stock Market: Barbara D. Colwell, Soo-Keong Koh, Sunggyu Lee, Ph.D., Richard J. Nigon and Konstantin von Falkenhausen.

In making these affirmative determinations that such individuals are “independent directors,” the Board of Directors reviewed and discussed information provided by the directors and by NTIC with regard to each director’s business and personal activities as they may relate to NTIC and NTIC’s management.

Board Meetings and Attendance

The Board of Directors met four times during the fiscal year ended August 31, 2018. Each of the directors attended at least 75% of the aggregate of the total number of meetings of the Board and the total number of meetings held by all Board committees on which the director served.

Board Committees

The Board of Directors has a standing Audit Committee, Compensation Committee and Nominating and Corporate Governance Committee, each of which has the composition and responsibilities described below. The Board of Directors from time to time may establish other committees to facilitate the management of our company and may change the composition and responsibilities of our existing committees. Each of the Audit Committee, Compensation Committee and Nominating and Corporate Governance Committee operates under a written charter adopted by the Board of Directors, which can be found on the “Investor Relations—Corporate Governance” section of our corporate website www.ntic.com.

The following table summarizes the current membership of each of our three Board committees.

Director	Audit	Compensation	Nominating and Corporate Governance
Barbara D. Colwell	√	—	√
Soo-Keong Koh	—	—	Chair
Sunggyu Lee, Ph.D.	—	√	—
G. Patrick Lynch	—	—	—
Ramani Narayan, Ph.D.	—	—	—
Richard J. Nigon	Chair	√	√
Konstantin von Falkenhausen	√	Chair	—

Audit Committee

Responsibilities. The Audit Committee provides assistance to the Board of Directors in fulfilling its responsibilities for oversight, for quality and integrity of the accounting, auditing, reporting practices, systems of internal accounting and financial controls, the annual independent audit of our financial statements, and the legal compliance and ethics programs of NTIC as established by management. The Audit Committee's primary responsibilities include:

- Overseeing our financial reporting process, internal control over financial reporting and disclosure controls and procedures on behalf of the Board of Directors;
- Having sole authority to appoint, retain and oversee the work of our independent registered public accounting firm and establish the compensation to be paid to the firm;
- Reviewing and pre-approving all audit services and permissible non-audit services to be provided to NTIC by our independent registered public accounting firm;
- Establishing procedures for the receipt, retention and treatment of complaints regarding accounting, internal accounting controls or auditing matters and for the confidential, anonymous submission by our employees of concerns regarding questionable accounting or auditing matters; and
- Overseeing the establishment and administration of (including the grant of any waiver from) a written code of ethics applicable to our principal executive officer, principal financial officer, principal accounting officer or controller, or persons performing similar functions.

The Audit Committee has the authority to engage the services of outside experts and advisors as it deems necessary or appropriate to carry out its duties and responsibilities.

Composition. The current members of the Audit Committee are Ms. Colwell, Mr. Nigon and Mr. von Falkenhausen. Mr. Nigon is the chair of the Audit Committee.

Each current member of the Audit Committee qualifies as "independent" for purposes of membership on audit committees pursuant to the Listing Rules of the Nasdaq Stock Market and the rules and regulations of the SEC and is "financially literate" as required by the Listing Rules of the Nasdaq Stock Market. In addition, the Board of Directors has determined that Mr. Nigon qualifies as an "audit committee financial expert" as defined by the rules and regulations of the SEC and meets the qualifications of "financial sophistication" under the Listing Rules of the Nasdaq Stock Market as a result of his extensive financial background and various financial positions he has held throughout his career. Stockholders should understand that these designations related to our Audit Committee members' experience and understanding with respect to certain accounting and auditing matters do not impose upon any of them any duties, obligations or liabilities that are greater than those generally imposed on a member of the Audit Committee or of the Board of Directors.

Meetings. The Audit Committee met four times during fiscal 2018 and once in executive session with Baker Tilly Virchow Krause, LLP, our independent registered public accounting firm.

Audit Committee Report. This report is furnished by the Audit Committee of the Board of Directors with respect to NTIC's financial statements for the fiscal year ended August 31, 2018.

One of the purposes of the Audit Committee is to oversee NTIC's accounting and financial reporting processes and the audit of NTIC's annual financial statements. NTIC's management is responsible for the preparation and presentation of complete and accurate financial statements. NTIC's independent registered public accounting firm, Baker Tilly Virchow Krause, LLP, is responsible for performing an independent audit of NTIC's financial statements in accordance with the standards of the Public Company Accounting Oversight Board (United States) and for issuing a report on their audit.

In performing its oversight role, the Audit Committee has reviewed and discussed NTIC's audited financial statements for the fiscal year ended August 31, 2018 with NTIC's management. Management represented to the Audit Committee that NTIC's financial statements were prepared in accordance with generally accepted accounting principles. The Audit Committee has discussed with Baker Tilly Virchow Krause, LLP, NTIC's independent registered public accounting firm, the matters required to be discussed under Public Company Accounting Oversight Board standards. The Audit Committee has received the written disclosures and the letter from Baker Tilly Virchow Krause, LLP required by applicable requirements of the Public Company Accounting Oversight Board regarding Baker Tilly Virchow Krause, LLP's communications with the Audit Committee concerning independence. The Audit Committee has discussed with Baker Tilly Virchow Krause, LLP its independence and concluded that the independent registered public accounting firm is independent from NTIC and NTIC's management.

Based on the review and discussions of the Audit Committee described above, in reliance on the unqualified opinion of Baker Tilly Virchow Krause, LLP regarding NTIC's audited financial statements, and subject to the limitations on the role and responsibilities of the Audit Committee discussed above and in the Audit Committee's charter, the Audit Committee recommended to the Board of Directors that NTIC's audited financial statements for the fiscal year ended August 31, 2018 be included in its Annual Report on Form 10-K for the fiscal year ended August 31, 2018 for filing with the Securities and Exchange Commission.

This report is dated as of November 7, 2018.

Audit Committee

Richard J. Nigon, Chair
Barbara D. Colwell
Konstantin von Falkenhausen

Other Information. Additional information regarding the Audit Committee and our independent registered public accounting firm is disclosed under the "*Proposal Four—Ratification of Selection of Independent Registered Public Accounting Firm*" section of this proxy statement.

Compensation Committee

Responsibilities. The Compensation Committee provides assistance to the Board of Directors in fulfilling its oversight responsibility relating to compensation of our Chief Executive Officer and other executive officers and administers our equity compensation plans. The Compensation Committee’s primary responsibilities include:

- recommending to the Board of Directors for its determination, the annual salaries, incentive compensation, long-term compensation and any and all other compensation applicable to our executive officers;
- establishing, and from time to time, reviewing and revising, corporate goals and objectives with respect to compensation for our executive officers and establishing and leading a process for the full Board of Directors to evaluate the performance of our executive officers in light of those goals and objectives;
- administering our equity compensation plans and recommending to the Board of Directors for its determination grants of options or other equity-based awards for executive officers, employees and independent consultants under our equity compensation plans;
- reviewing our policies with respect to employee benefit plans; and
- establishing, and from time to time, reviewing and revising processes and procedures for the consideration and determination of executive compensation.

The Compensation Committee has the authority to engage the services of outside experts and advisors as it deems necessary or appropriate to carry out its duties and responsibilities, and prior to doing so, assesses the independence of such experts and advisors from management.

Composition. The current members of the Compensation Committee are Dr. Lee, Mr. Nigon and Mr. von Falkenhausen. Mr. von Falkenhausen is the current Chair of the Compensation Committee. The Board of Directors has determined that each of the members of the Compensation Committee is considered an “independent director” under the Listing Rules of the Nasdaq Stock Market, a “non-employee director” within the meaning of Rule 16b-3 under the Exchange Act, and otherwise independent under the rules and regulations of the SEC.

Processes and Procedures for Consideration and Determination of Executive Compensation. As described in more detail above under “—Responsibilities,” the Board of Directors has delegated to the Compensation Committee the responsibility, among other things, to recommend to the Board of Directors any and all compensation payable to our executive officers, including annual salaries, incentive compensation and long-term incentive compensation, and to administer our equity and incentive compensation plans applicable to our executive officers. Decisions regarding executive compensation made by the Compensation Committee are not considered final and are subject to final review and approval by the entire Board of Directors. Under the terms of its formal written charter, the Compensation Committee has the power and authority, to the extent permitted by our Bylaws and applicable law, to delegate all or a portion of its duties and responsibilities to a subcommittee of the Compensation Committee. The Compensation Committee has not generally delegated any of its duties and responsibilities to subcommittees, but rather has taken such actions as a committee, as a whole.

Our President and Chief Executive Officer and our Chief Financial Officer assist the Compensation Committee in gathering compensation related data regarding our executive officers and making

recommendations to the Compensation Committee regarding the form and amount of compensation to be paid to each executive officer. In making final recommendations to the Board of Directors regarding compensation to be paid to our executive officers, the Compensation Committee considers the recommendations of our President and Chief Executive Officer and our Chief Financial Officer, but also considers other factors, such as its own views as to the form and amount of compensation to be paid, the achievement by the company of pre-established performance objectives, the general performance of the company and the individual officers, the performance of the company's stock price and other factors that may be relevant. Neither management nor the Compensation Committee engaged a compensation consultant.

Final deliberations and decisions by the Compensation Committee regarding its recommendations to the Board of Directors of the form and amount of compensation to be paid to our executive officers are made by the Compensation Committee, without the presence of any executive officer of our company. In making final decisions regarding compensation to be paid to our executive officers, the Board of Directors considers the same factors and gives considerable weight to the recommendations of the Compensation Committee.

Meetings. The Compensation Committee met three times during fiscal 2018.

Nominating and Corporate Governance Committee

Responsibilities. The primary responsibilities of the Nominating and Corporate Governance Committee include:

- identifying individuals qualified to become members of the Board of Directors;
- recommending director nominees for each annual meeting of our stockholders and director nominees to fill any vacancies that may occur between meetings of stockholders;
- being aware of best practices in corporate governance matters;
- developing and overseeing an annual Board of Directors and Board committee evaluation process; and
- establishing and leading a process for determination of the compensation applicable to the non-employee directors on the Board.

The Nominating and Corporate Governance Committee has the authority to engage the services of outside experts and advisors as it deems necessary or appropriate to carry out its duties and responsibilities.

Composition. The current members of the Nominating and Corporate Governance Committee are Mr. Koh, Ms. Colwell and Mr. Nigon. Mr. Koh is the chair of the Nominating and Corporate Governance Committee. The Board of Directors has determined that each of the members of the Nominating and Corporate Governance Committee is considered an "independent director" under the Listing Rules of the Nasdaq Stock Market.

Processes and Procedures for Consideration and Determination of Director Compensation. As mentioned above under "*Responsibilities*," the Board of Directors has delegated to the Nominating and Corporate Governance Committee the responsibility, among other things, to review and make recommendations to the Board of Directors concerning compensation for non-employee members of the Board of Directors, including but not limited to retainers, meeting fees, committee chair and member

retainers and equity compensation. Decisions regarding director compensation made by the Nominating and Corporate Governance Committee are not considered final and are subject to final review and approval by the entire Board of Directors. Under the terms of its formal written charter, the Nominating and Corporate Governance Committee has the power and authority, to the extent permitted by our Bylaws and applicable law, to delegate all or a portion of its duties and responsibilities to a subcommittee of the Nominating and Corporate Governance Committee. The Nominating and Corporate Governance Committee has not generally delegated any of its duties and responsibilities to subcommittees, but rather has taken such actions as a committee, as a whole.

In making recommendations to the Board of Directors regarding compensation to be paid to our non-employee directors, the Nominating and Corporate Governance Committee considers fees and other compensation paid to directors of comparable public companies, the number of board and committee meetings that our directors are expected to attend, and other factors that may be relevant. In making final decisions regarding non-employee director compensation, the Board of Directors considers the same factors and the recommendation of the Nominating and Corporate Governance Committee.

Meetings. The Nominating and Corporate Governance Committee met twice during fiscal 2018.

Director Nominations Process

Pursuant to a Director Nominations Process adopted by the Board of Directors, in selecting nominees for the Board of Directors, the Nominating and Corporate Governance Committee first determines whether the incumbent directors are qualified to serve, and wish to continue to serve, on the Board. The Nominating and Corporate Governance Committee believes that NTIC and its stockholders benefit from the continued service of qualified incumbent directors because those directors have familiarity with and insight into NTIC's affairs that they have accumulated during their tenure with the company. Appropriate continuity of Board membership also contributes to the Board's ability to work as a collective body. Accordingly, it is the practice of the Nominating and Corporate Governance Committee, in general, to re-nominate an incumbent director if the director wishes to continue his or her service with the Board, the director continues to satisfy the criteria for membership on the Board that the Nominating and Corporate Governance Committee generally views as relevant and considers in deciding whether to re-nominate an incumbent director or nominate a new director, the Nominating and Corporate Governance Committee believes the director continues to make important contributions to the Board, and there are no special, countervailing considerations against re-nomination of the director.

Pursuant to a Director Nominations Process adopted by the Board of Directors, in identifying and evaluating new candidates for election to the Board, the Nominating and Corporate Governance Committee solicits recommendations for nominees from persons whom the Nominating and Corporate Governance Committee believes are likely to be familiar with qualified candidates having the qualifications, skills and characteristics required for Board nominees from time to time. Such persons may include members of the Board of Directors and our senior management and advisors to our company. In addition, from time to time, if appropriate, the Nominating and Corporate Governance Committee may engage a search firm to assist it in identifying and evaluating qualified candidates.

The Nominating and Corporate Governance Committee reviews and evaluates each candidate whom it believes merits serious consideration, taking into account available information concerning the candidate, any qualifications or criteria for Board membership established by the Nominating and Corporate Governance Committee, the existing composition of the Board, and other factors that it deems relevant. In conducting its review and evaluation, the Nominating and Corporate Governance Committee solicits the views of our management, other Board members, and other individuals it believes may have insight

into a candidate. The Nominating and Corporate Governance Committee may designate one or more of its members and/or other Board members to interview any proposed candidate.

The Nominating and Corporate Governance Committee will consider recommendations for the nomination of directors submitted by our stockholders. For more information, see the information set forth under “*Stockholder Proposals and Director Nominations for the 2020 Annual Meeting of Stockholders — Director Nominations for 2020 Annual Meeting.*” The Nominating and Corporate Governance Committee will evaluate candidates recommended by stockholders in the same manner as those recommended as stated above.

There are no formal requirements or minimum qualifications that a candidate must meet in order for the Nominating and Corporate Governance Committee to recommend the candidate to the Board. The Nominating and Corporate Governance Committee believes that each nominee should be evaluated based on his or her merits as an individual, taking into account the needs of our company and the Board of Directors. However, in evaluating candidates, there are a number of criteria that the Nominating and Corporate Governance Committee generally views as relevant and is likely to consider. Some of these factors include whether the candidate is an “independent director” under the Listing Rules of the Nasdaq Stock Market and meets any other applicable independence tests under the federal securities laws and rules and regulations of the SEC; whether the candidate is “financially literate” and otherwise meets the requirements for serving as a member of an audit committee under the Listing Rules of the Nasdaq Stock Market; whether the candidate is “financially sophisticated” under the Listing Rules of the Nasdaq Stock Market and an “audit committee financial expert” under the federal securities laws and the rules and regulations of the SEC; the needs of our company with respect to the particular talents and experience of its directors; the personal and professional integrity and reputation of the candidate; the candidate’s level of education and business experience; the candidate’s broad-based business acumen; the candidate’s level of understanding of our business and its industry; the candidate’s ability and willingness to devote adequate time to work of the Board and its committees; the fit of the candidate’s skills and personality with those of other directors and potential directors in building a board that is effective, collegial and responsive to the needs of our company; whether the candidate possesses strategic thinking and a willingness to share ideas; the candidate’s diversity of experiences, expertise and background; and the candidate’s ability to represent the interests of all stockholders and not a particular interest group.

We do not have a formal stand-alone diversity policy in considering whether to recommend any director nominee, including candidates recommended by stockholders. As discussed above, the Nominating and Corporate Governance Committee will consider the factors described above, including the candidate’s diversity of experiences, expertise and background. The Nominating and Corporate Governance Committee seeks nominees with a broad diversity of experience, expertise and backgrounds. The Nominating and Corporate Governance Committee does not assign specific weights to particular criteria and no particular criterion is necessarily applicable to all prospective nominees. The Board of Directors believes that the backgrounds and qualifications of directors, considered as a group, should provide a significant mix of experience, knowledge and abilities that will allow the Board of Directors to fulfill its responsibilities. While the Nominating and Corporate Governance Committee focuses on obtaining a diversity of experiences, expertise and background on the Board of Directors rather than a diversity of personal characteristics, it recognizes the desirability of racial, ethnic, gender, age and other personal diversity and considers it an additional benefit when a new director can also increase the personal diversity of the Board of Directors as a whole. The Nominating and Corporate Governance Committee evaluates its effectiveness in achieving diversity in a broad sense on the Board of Directors through its annual review of Board member composition prior to recommending nominees for election each year.

Board Oversight of Risk

The Board of Directors as a whole has responsibility for risk oversight, with more in-depth reviews of certain areas of risk being conducted by the relevant Board committees that report on their deliberations to the full Board of Directors. The oversight responsibility of the Board and its committees is enabled by management reporting processes that are designed to provide information to the Board about the identification, assessment and management of critical risks and management's risk mitigation strategies. The areas of risk that we focus on include operational, financial (accounting, credit, liquidity and tax), legal, compensation, competitive, health, safety, environmental, economic, political and reputational risks.

The standing committees of the Board of Directors oversee risks associated with their respective principal areas of focus. The Audit Committee's role includes a particular focus on the qualitative aspects of financial reporting, on our processes for the management of business and financial risk, our financial reporting obligations and for compliance with significant applicable legal, ethical and regulatory requirements. The Audit Committee, along with management, is also responsible for developing and participating in a process for review of important financial and operating topics that present potential significant risk to our company. The Compensation Committee is responsible for overseeing risks and exposures associated with our executive compensation programs and arrangements and management succession planning. The Nominating and Corporate Governance Committee oversees risks relating to our corporate governance matters, director compensation programs and director succession planning.

We recognize that a fundamental part of risk management is understanding not only the risks a company faces and what steps management is taking to manage those risks, but also understanding what level of risk is appropriate for the company. The involvement of the full Board of Directors each year in establishing our key corporate business strategies and annual fiscal budget is a key part of the Board's assessment of management's appetite for risk and also a determination of what constitutes an appropriate level of risk for our company.

We believe our current Board leadership structure is appropriate and helps ensure proper risk oversight for our company for a number of reasons, including: (1) general risk oversight by the full Board of Directors in connection with its role in reviewing our key business strategies and monitoring on an on-going basis the implementation of our key business strategies; (2) more detailed oversight by our standing Board committees that are currently comprised of and chaired by our independent directors, and (3) the focus of our Chairman of the Board on allocating appropriate Board agenda time for discussion regarding the implementation of our key business strategies and specifically risk management.

Code of Ethics

The Board of Directors has adopted a Code of Ethics, which applies to all of our directors, executive officers, including our Chief Executive Officer and Chief Financial Officer, and other employees, and meets the requirements of the SEC and the Nasdaq Stock Market. A copy of our Code of Ethics is available on the "Investor Relations—Corporate Governance" section of our corporate website www.ntic.com.

Policy Regarding Director Attendance at Annual Meetings of Stockholders

Although a regular Board of Directors meeting is generally held on the day of each annual meeting of stockholders, this meeting is typically held by telephone. It is the policy of the Board of Directors that if a regular in-person Board of Directors meeting occurs on the day of the annual meeting of stockholders, directors standing for re-election should attend the annual meeting of stockholders, if their schedules permit. Since a telephonic Board meeting was held on the day of last year's Annual Meeting of Stockholders, the only directors who attended the meeting were Mr. Nigon and Mr. Lynch.

Complaint Procedures

The Audit Committee has established procedures for the receipt, retention and treatment of complaints received by NTIC regarding accounting, internal accounting controls or auditing matters, and the submission by our employees, on a confidential and anonymous basis, of concerns regarding questionable accounting or auditing matters. Our personnel with such concerns are encouraged to discuss their concerns with our outside legal counsel, who in turn will be responsible for informing the Audit Committee.

Process Regarding Stockholder Communications with Board of Directors

Stockholders may communicate with the Board or any one particular director by sending correspondence, addressed to NTIC's Corporate Secretary, Northern Technologies International Corporation, 4201 Woodland Road, Circle Pines, MN 55014 with an instruction to forward the communication to the Board or one or more particular directors. NTIC's Corporate Secretary will promptly forward all such stockholder communications to the Board or the one or more particular directors, with the exception of any advertisements, solicitations for periodical or other subscriptions and other similar communications.

Compensation Committee Interlocks and Insider Participation

No member of the Compensation Committee has served as one of our officers or employees at any time. Except as otherwise disclosed in this proxy statement, no member of the Compensation Committee has had any relationship with NTIC requiring disclosure under Item 404 of Regulation S-K under the Exchange Act. None of our executive officers has served as a director, or member of the compensation committee (or other committee serving an equivalent function), of an organization that has an executive officer also serving as a member of our Board of Directors or Compensation Committee.

DIRECTOR COMPENSATION

Summary of Cash and Other Compensation

The table below provides summary information concerning the compensation of each individual who served as a director of our company during the fiscal year ended August 31, 2018, other than G. Patrick Lynch, our President and Chief Executive Officer, who was not compensated separately for serving on the Board of Directors during fiscal 2018. His compensation during fiscal 2018 for serving as an executive officer of our company is set forth under “*Executive Compensation*” included elsewhere in this proxy statement.

DIRECTOR COMPENSATION – FISCAL 2018

Name	Fees Earned or Paid in Cash (\$)	Option Awards (\$) ⁽¹⁾⁽²⁾	All Other Compensation (\$) ⁽³⁾	Total (\$)
Barbara D. Colwell	\$ 32,750	\$ 31,000	\$ —	\$ 63,750
Soo-Keong Koh	25,750	31,000	—	56,750
Sunggyu Lee, Ph.D.	24,750	0	—	24,750
Ramani Narayan, Ph.D.	24,750	31,000	144,000	199,750
Richard J. Nigon	48,750	46,500	—	95,250
Konstantin von Falkenhausen.....	32,750	31,000	—	63,750

- (1) The amounts in this column do not reflect compensation actually received by the directors nor do they reflect the actual value that will be recognized by the directors. Instead, the amounts reflect the grant date fair value for option grants made by us in fiscal 2018, as calculated in accordance with Financial Accounting Standards Board (FASB) Accounting Standards Codification (ASC) Topic 718.

On September 1, 2017, each then current director, other than Dr. Lee and Mr. Lynch, received a stock option to purchase 4,000 shares of our common stock at an exercise price of \$18.35 per share granted under the Northern Technologies International Corporation Amended and Restated 2007 Stock Incentive Plan, the material terms of which are described in more detail under “*Executive Compensation—Stock Incentive Plan*.” These options vested in full on September 1, 2018 and will expire on August 31, 2027 or earlier in the case of a director whose service as a director is terminated prior to such date. In addition, on September 1, 2017, Mr. Nigon received an additional stock option to purchase 2,000 shares of our common stock in consideration for his service as Chairman of the Board. The terms of this stock option are identical to the other director stock options granted on that date. See “—*Non-Employee Director Compensation Program—Stock Options*.” The grant date fair value associated with these awards and as calculated in accordance with FASB ASC Topic 718 is determined based on our Black-Scholes option pricing model. The grant date fair value per share for the options granted on September 1, 2017 was \$7.75 and was determined using the following specific assumptions: risk free interest rate: 1.87%; expected life: 10.0 years; expected volatility: 45.9%; and expected dividend yield: 0%.

- (2) The table below provides information regarding the aggregate number of options to purchase shares of our common stock outstanding at August 31, 2018 and held by each of the directors listed in the Director Compensation Table. Note that because of the grant date, neither the Director Compensation Table nor the table below reflects option grants on September 1, 2018. See “—*Non-Employee Director Compensation Program—Stock Options*.”

Name	Aggregate Number Of Securities Underlying Options	Exercisable/ Unexercisable	Exercise Price(s)	Expiration Date(s)
Barbara D. Colwell	19,000	15,000/4,000	\$13.40 – 20.10	11/18/2023 – 8/31/2027
Soo-Keong Koh	20,000	16,000/4,000	\$13.40 – 20.10	08/31/2023 – 8/31/2027
Sunggyu Lee, Ph.D.	4,000	4,000/0	\$14.70	8/31/2023

<u>Name</u>	<u>Aggregate Number Of Securities Underlying Options</u>	<u>Exercisable/ Unexercisable</u>	<u>Exercise Price(s)</u>	<u>Expiration Date(s)</u>
Ramani Narayan, Ph.D.	20,000	16,000/4,000	\$13.40 – 20.10	08/31/2023 – 8/31/2027
Richard J. Nigon.....	30,000	24,000/6,000	\$10.25 – 20.10	08/31/2023 – 8/31/2027
Konstantin von Falkenhausen..	23,000	19,000/4,000	\$10.25 – 20.10	11/15/2022 – 8/31/2027

- (3) We do not provide perquisites or other personal benefits to our directors. The amounts reflected for Dr. Narayan reflects consulting fees paid during the fiscal year ended August 31, 2018 as described in more detail below under “—*Consulting Agreement.*”

Non-Employee Director Compensation Program

Overview. Our non-employee directors for purposes of our director compensation program currently consist of Barbara D. Colwell, Soo-Keong Koh, Sunggyu Lee, Ph.D., Ramani Narayan, Ph.D., Richard J. Nigon and Konstantin von Falkenhausen.

We use a combination of cash and long-term equity-based incentive compensation in the form of annual stock option grants to attract and retain qualified candidates to serve on the Board of Directors. In setting non-employee director compensation, we follow the process and procedures described under “*Corporate Governance—Nominating and Corporate Governance Committee—Processes and Procedures for the Determination of Director Compensation.*”

Cash Retainers and Meeting Fees. Each of our non-employee directors receives annual cash retainers and meeting fees. The following table sets forth the annual cash retainers paid to our non-employee directors during fiscal 2018:

<u>Description</u>	<u>Fiscal 2018 Annual Cash Retainer</u>
Board Member	\$ 20,000
Chairman of the Board.....	15,000
Audit Committee Chair	1,000
Audit Committee Member (including Chair).....	4,000

Effective September 1, 2018, we changed our non-employee director compensation program to increase certain annual cash retainers and implement new ones. The following table sets forth the annual cash retainers to be paid to our non-employee directors during fiscal 2019:

<u>Description</u>	<u>Fiscal 2019 Annual Cash Retainer</u>
Non-employee Board Member.....	\$ 25,000
Chairman of the Board.....	15,000
Audit Committee Chair	5,000
Audit Committee Member (including Chair).....	4,500
Compensation Committee Chair	4,000
Compensation Committee (including Chair)	3,000
Nominating and Corporate Governance Committee Chair	2,000
Nominating and Corporate Governance Committee (including Chair).....	3,000

Each of our non-employee directors also receives \$1,000 for each Board, Board committee and strategy review meeting attended. No director, however, earns more than \$1,000 per day in Board, Board committee and strategy review meeting fees.

Stock Options. During fiscal 2018, each of our non-employee directors, other than Dr. Sunggyu Lee, was automatically granted a ten-year non-qualified option to purchase 4,000 shares of our common stock on the first day of our fiscal year in consideration for his or her service as a director of NTIC and the Chairman of the Board was automatically granted an additional ten-year non-qualified option to purchase 2,000 shares of our common stock in consideration for his services as Chairman.

In addition to the cash annual retainers, we also revised the stock option component of our non-employee director compensation program effective for fiscal 2019. Pursuant to the new program, each such non-employee director who is expected to stand for re-election at the next annual meeting of stockholders, will be automatically granted a ten-year non-qualified option to purchase \$50,000 in shares of our common stock on the first day of each fiscal year in consideration for his or her service as a director of NTIC and the Chairman of the Board will be automatically granted an additional ten-year non-qualified option to purchase \$10,000 in shares of our common stock on the first day of each fiscal year in consideration for his or her services as Chairman. In addition, each new non-employee director will be automatically granted a ten-year non-qualified option to purchase a pro rata portion of \$50,000 shares of our common stock calculated by dividing the number of months remaining in the fiscal year at the time of election or appointment by 12 on the date the director is first elected or appointed as a director of NTIC. The number of shares of common stock underlying the options will be determined based on the grant date fair value of the options. Each option will become exercisable in full on the one-year anniversary of the grant date. The exercise price of such options will be equal to the fair market value of a share of our common stock on the grant date.

Since 2014, Dr. Sunggyu Lee has rejected option grants to directors in connection with his services as a director of NTIC.

Under the terms of our stock incentive plan, unless otherwise provided in a separate agreement or modified in connection with the termination of a director's service, if a director's service with our company terminates for any reason, the unvested portion of options then held by the director will immediately terminate and the director's right to exercise the then vested portion will:

- immediately terminate if the director's service relationship with our company terminated for "cause";
- continue for a period of 12 months if the director's service relationship with our company terminates as a result of the director's death, disability or retirement; or
- continue for a period of three months if the director's service relationship with our company terminates for any reason, other than for cause or upon the director's death, disability or retirement.

We refer you to note (1) to the Director Compensation Table for a summary of all option grants to our non-employee directors during the fiscal year ended August 31, 2018 and note (2) to the Director Compensation Table for a summary of all options to purchase shares of our common stock held by our non-employee directors as of August 31, 2018.

Reimbursement of Expenses. All of our directors are reimbursed for travel expenses for attending meetings and other miscellaneous out-of-pocket expenses incurred in performing their Board functions.

Consulting Agreement

NTIC, Bioplastic Polymers LLC and Dr. Narayan are parties to a consulting agreement pursuant to which Dr. Narayan provides certain consulting services to us relating to our Natur-Tec® business and bioplastics program. The consulting agreement sets out terms for clear separation between Dr. Narayan's

work at Michigan State University and any related inventions and his work with us and related inventions. In exchange for the consulting services, we pay Dr. Narayan \$12,000 per month. The term of the consulting agreement is five years, and unless earlier terminated by the parties, will terminate on January 11, 2022. Either party may terminate the consulting agreement earlier upon 30 days prior written notice. The consulting agreement will terminate automatically upon the death of Dr. Narayan or in the event of his disability that prevents him from performing the consulting services under the agreement. We paid consulting fees to Bioplastic Polymers LLC which is owned by Ramani Narayan, Ph.D. in the aggregate amount of \$144,000 during the fiscal year ended August 31, 2018.

Indemnification Agreements

We have entered into agreements with all of our directors under which we are required to indemnify them against expenses, judgments, penalties, fines, settlements and other amounts actually and reasonably incurred, including expenses of a derivative action, in connection with an actual or threatened proceeding if any of them may be made a party because he or she is or was one of our directors. We will be obligated to pay these amounts only if the director acted in good faith and in a manner that he or she reasonably believed to be in or not opposed to our best interests. With respect to any criminal proceeding, we will be obligated to pay these amounts only if the director had no reasonable cause to believe his or her conduct was unlawful. The indemnification agreements also set forth procedures that will apply in the event of a claim for indemnification.

EXECUTIVE COMPENSATION

Compensation Review

In this Compensation Review, we describe the key principles and approaches we use to determine elements of compensation paid to, awarded to and earned by G. Patrick Lynch, who serves as our President and Chief Executive Officer (referred to as our “CEO”), and Matthew C. Wolsfeld, who serves as our Chief Financial Officer (referred to as our “CFO”). Their compensation is set forth in the Summary Compensation Table found later in this proxy statement. The CEO and CFO are the only two individuals who have been designated by our Board of Directors as “executive officers” of NTIC within the meaning of the federal securities laws. This Compensation Review should be read in conjunction with the accompanying compensation tables, corresponding notes and narrative discussion, as they provide additional information and context to our compensation disclosures. We refer to the CEO and CFO in this proxy statement as our “named executive officers” or “executives.”

When reading this Compensation Review, please note that we are a “smaller reporting company” under the federal securities laws and are not required to provide a “Compensation Discussion and Analysis” of the type required by Item 402 of Regulation S-K. This Compensation Review is intended to supplement the SEC-required disclosure, which is included below this section, and it is not a Compensation Discussion and Analysis.

Executive Summary

One of our key executive compensation objectives is to link pay to performance by aligning the financial interests of our executives with those of our stockholders and by emphasizing pay for performance in our compensation programs. We believe we accomplish this objective primarily through our annual bonus plan, which compensates executives for achieving annual corporate financial goals and individual goals.

Our fiscal 2018 total net sales increased 30% to \$51,424,821 during fiscal 2018 compared to fiscal 2017, and our net income was \$6,701,366, or \$1.43 per diluted common share, for fiscal 2018 compared to \$3,422,126, or \$0.75 per diluted common share, for fiscal 2017. Total compensation for our named executive officers for fiscal 2018 increased approximately 46.7% compared to fiscal 2017, primarily as a result of increased bonuses under our annual bonus plan.

Compensation Highlights and Best Practices

Our compensation practices include many best pay practices that support our executive compensation objectives and principles and benefit our stockholders, such as the following:

- *Pay for performance.* We tie compensation directly to financial performance. Our annual bonus plan pays out only if a certain minimum adjusted earnings threshold is met and the payouts are completely dependent upon our actual adjusted earnings.
- *At-risk pay.* A significant portion of executives’ compensation is “performance-based” or “at risk.” For fiscal 2018, 53.1% of total compensation for our named executive officers was performance-based, assuming grant date fair values for equity awards.
- *Equity-based pay.* A significant portion of executives’ compensation is “equity-based” and in the form of stock-based incentive awards. For fiscal 2018, 5.2% of total compensation for our named executive officers was equity-based, assuming grant date fair values for equity awards.

- *Three-year vesting.* Value received under our long-term equity-based incentive awards granted in fiscal 2018, which was comprised solely of stock options, is tied to three-year vesting and any value received is contingent upon our long-term stock price performance since stock options have value only if the market value of our common stock exceeds the exercise price of the options.
- *Clawback policy.* Our stock incentive plan and related award agreements include a “clawback” mechanism to recoup incentive compensation if it is determined that executives engaged in certain conduct adverse to our interests. In addition, in August 2018, we adopted a clawback policy pursuant to which we may recover certain incentive compensation from current or former executive officers in the event a financial metric used to determine the vesting or payment of incentive compensation to an executive was calculated incorrectly or the executive engaged in egregious conduct that is substantially detrimental to our company.
- *No tax gross-ups.* We do not provide tax “gross-up” payments in connection with any compensation, benefits or perquisites provided to our executives.
- *Limited perquisites.* We provide only limited perquisites to our executives.
- *No hedging or pledging.* We prohibit our executives from engaging in hedging transactions, such as short sales, transactions in publicly traded options, such as puts, calls and other derivatives, and pledging our common stock in any significant respect.

Say-on-Pay Vote

At our 2018 annual meeting of stockholders, our stockholders had the opportunity to provide an advisory vote on the compensation paid to our named executive officers, or a “say-on-pay” vote. Of the votes cast by our stockholders, 97% were in favor of our “say-on-pay” proposal. Accordingly, the Compensation Committee generally believes that these results affirmed stockholder support of our approach to executive compensation and did not believe it was necessary to make; and therefore, has not made, any changes to our executive pay program solely in response to that vote. In accordance with the result of the advisory vote on the frequency of the say-on-pay vote, which was conducted at our 2014 annual meeting of stockholders, our board of directors has determined that we will conduct an executive compensation advisory vote every year. Accordingly, the next say-on-pay vote will occur at our 2020 Annual Meeting of stockholders. Our next vote on the frequency of the say-on-pay vote also will occur at our 2020 annual meeting of stockholders.

Executive Compensation Objectives

Our guiding compensation philosophy is to maintain an executive compensation program that allows us to attract, retain, motivate and reward qualified and talented executives that will enable us to grow our business, achieve our annual, long-term and strategic goals and drive long-term stockholder value.

The following core principles provide a framework for our executive compensation program:

- Align interests of our executives with stockholder interests;
- Integrate compensation with our business plans and strategic goals;
- Link amount of compensation to both company and individual performance; and
- Provide fair and competitive compensation opportunities that attract and retain executives.

How We Make Compensation Decisions

There are several elements to our executive compensation decision-making, which we believe allow us to most effectively implement our compensation philosophy. Each of these elements and their roles are described briefly below.

Role of the Compensation Committee. The Compensation Committee, which is comprised solely of independent directors, oversees our executive compensation program. Within its duties, the Compensation Committee recommends compensation for the CEO and CFO. In doing so, the Compensation Committee:

- Approves and recommends that the Board approve the total executive compensation package for each executive, including his base salary, annual bonus payout and annual stock option awards;
- Approves and recommends that the Board approve the terms of our annual bonus plan;
- Approves and recommends that the Board approve annual stock option grants;
- Evaluates market competitiveness of our executive compensation program; and
- Evaluates proposed significant changes to all other elements of our executive compensation program.

In setting or recommending executive compensation for our executives, the Compensation Committee considers the following primary factors:

- each executive's position within the company and the level of responsibility;
- the ability of the executive to impact key business initiatives;
- the executive's individual experience and qualifications;
- company performance, as compared to specific pre-established objectives;
- individual performance, generally and as compared to specific pre-established objectives;
- the executive's current and historical compensation levels;
- advancement potential and succession planning considerations;
- an assessment of the risk that the executive would leave NTIC and the harm to our business initiatives if the executive left;
- the retention value of executive equity holdings, including outstanding stock options;
- the dilutive effect on the interests of our stockholders of long-term equity-based incentive awards; and
- anticipated share-based compensation expense as determined under applicable accounting rules.

The Compensation Committee also considers the recommendations of the CEO with respect to executive compensation to be paid to other executives and employees. The significance of any individual factor described above in setting executive compensation will vary from year to year and may vary among our executives. In making its final decision regarding the form and amount of compensation to be paid to our named executive officers (other than the CEO), the Compensation Committee considers and gives great weight to the recommendations of the CEO recognizing that due to his reporting and otherwise close relationship with each executive and employee, the CEO often is in a better position than the Compensation Committee to evaluate the performance of each executive (other than himself). In making its final decision regarding the form and amount of compensation to be paid to the CEO, the Compensation Committee considers the results of the CEO's self-review and his individual annual performance review by the Compensation Committee and the recommendations of our non-employee directors. The CEO's compensation is approved by the Board of Directors (with the CEO abstaining), upon recommendation of the Compensation Committee.

Role of Management. Management's role is to provide current compensation information to the Compensation Committee and provide analysis and recommendations on executive compensation to the Compensation Committee based on the executive's level of professional experience; the executive's duties and responsibilities; individual performance; tenure; and historic corporate performance. None of our executives, including the CEO, provides input or recommendations with respect to his own compensation.

Use of Market Data. Since there are no public companies of which NTIC is aware that are substantially similar to NTIC, in terms of its business, industry and corporate profile, the Compensation Committee has not used market data to review and evaluate executive compensation in any material respect. However, the Compensation Committee has recently used a group of peer companies with a market capitalization similar to NTIC and either in a similar industry or located in Minnesota.

Elements of Our Executive Compensation Program

Our executive compensation program for the fiscal year ended August 31, 2018 consisted of the following key elements:

- Base salary;
- Annual incentive compensation;
- Long-term equity-based incentive compensation, in the form of stock options; and
- All other compensation, including health and welfare benefits, retirement plans and perquisites.

The table below provides some of the key characteristics of and purpose for each element along with some key actions taken during fiscal 2018.

Element	Key Characteristics	Purpose	Key Fiscal 2018 Actions
Base Salary	A fixed amount, paid in cash and reviewed annually and, if appropriate, adjusted.	Provide a source of fixed income that is competitive and reflects scope and responsibility of the position held.	Our named executive officers received 9% increases to annual base salaries, effective as of September 1, 2017, the first day of fiscal 2018.

Element	Key Characteristics	Purpose	Key Fiscal 2018 Actions
Annual Incentive	A variable, short-term element of compensation that is typically payable in cash and is based on Adjusted EBITDOI and individual performance goals.	Motivate and reward our executives for achievement of annual business results intended to drive overall company performance.	No significant changes were made.
Long-Term Equity-Based Incentive	A variable, long-term element of compensation that is provided in the form of stock options. Stock options are time-based and vest annually over three years.	Align the interests of our executives with the long-term interests of our stockholders; promote stock ownership and create significant incentives for executive retention.	No significant changes were made.
Health and Welfare Benefits	Includes health, dental and life insurance.	Provide competitive health and welfare benefits at a reasonable cost and promote employee health.	No significant changes were made.
Retirement Plans	Includes a 401(k) plan. We do not provide pension arrangements or post-retirement health coverage for our executives or employees. We also do not provide any nonqualified defined contribution or other deferred compensation plans.	Provide an opportunity for employees to save and prepare financially for retirement.	No significant changes were made.
Perquisites	Includes use of a company-owned automobile. We do not provide any other perquisites to our executives.	Assist in the attraction and retention of executives.	No significant changes were made.

We describe each key element of our executive compensation program in more detail in the following pages, along with the compensation decisions made in fiscal 2018.

Base Salary. We provide a base salary for our named executive officers, which, unlike some of the other elements of our executive compensation program, is not subject to company or individual performance risk. We recognize the need for most executives to receive at least a portion of their total compensation in the form of a guaranteed base salary that is paid in cash regularly throughout the year.

We initially fix base salaries for our executives at a level that we believe enables us to hire and retain them in a competitive environment and to reward satisfactory individual performance and a satisfactory level of contribution to our overall business objectives. The Compensation Committee reviews base salaries for our named executive officers each year typically in August and generally recommends to the Board of Directors any increases for the following fiscal year in August. Any increases in base salaries are effective as of September 1.

The Compensation Committee's recommendations to the Board of Directors regarding the base salaries of our named executive officers are based on a number of factors, including: the executive's level of responsibility, prior experience and base salary for the prior year, the skills and experiences required by the position, length of service with our company, past individual performance, cost of living increases and other considerations the Compensation Committee deems relevant. The Compensation Committee also

recognizes that in addition to the typical responsibilities and duties held by our executives, by virtue of their positions, our executives, due to the small number of our executives and employees, often possess additional responsibilities and perform additional duties that would be typically delegated to others in most organizations with additional personnel and resources.

Annualized base salary rates for fiscal 2017 and fiscal 2018 for our named executive officers were as follows:

Name	Fiscal 2017	Fiscal 2018	% Change From Fiscal 2017
G. Patrick Lynch	\$ 357,763	\$ 389,962	9.0%
Matthew C. Wolsfeld	264,433	288,232	9.0%

An increase of 9% was determined appropriate in light of the increased responsibilities taken on by our executives and performance during fiscal 2017. The Board of Directors, upon recommendation of the Compensation Committee, recently set base salaries for fiscal 2019. Mr. Lynch’s base salary for fiscal 2019 is \$428,958, and Mr. Wolsfeld’s base salary for fiscal 2019 is \$317,056, representing base salary increases of 10% over their respective base salaries for fiscal 2018.

Annual Incentive Compensation. In addition to base compensation, we provide our named executive officers the opportunity to earn annual incentive compensation based on the achievement of certain company and individual related performance goals. Our annual bonus program directly aligns the interests of our executive officers and stockholders by providing an incentive for the achievement of key corporate and individual performance measures that are critical to the success of our company and linking a significant portion of each executive’s annual compensation to the achievement of such measures.

Under the annual bonus plan for fiscal 2018, the total amount available under the bonus plan for all plan participants, including executives, as in past years, was a percent of NTIC’s earnings before interest, taxes and other income, as adjusted to take into account amounts to be paid under the bonus plan and certain other adjustments (referred to as “Adjusted EBITOI”). For fiscal 2018, the other adjustments included amounts paid under NTIC’s sales and management bonus plan and profit sharing plan. For each named executive officer participant, 75% of the amount of their individual bonus payout was determined based upon their individual allocation percentage of the total amount available under the bonus plan and 25% of their individual payout was determined based upon their achievement of certain pre-established but more qualitative individual performance objectives.

A plan participant’s individual allocation percentage of the total amount available under the bonus plan was based on the number of plan participants, the individual’s annual base salary and the individual’s position and level of responsibility within the company. Mr. Lynch’s individual allocation percentage for fiscal 2018 was 24% and Mr. Wolsfeld’s individual allocation percentage for fiscal 2018 was 17.7%.

Mr. Lynch’s individual performance objectives for fiscal 2018 related primarily to NTIC’s operations in China, management of pending litigation, the improvement and maintenance of key joint venture relationships, improvement and maintenance of investors relations and retention and improvement of key personnel. Mr. Wolsfeld’s individual performance objectives for fiscal 2018 related primarily to financial oversight of NTIC’s subsidiary in China, implementation of cost control measures, financial benchmarking of joint ventures and improvement and maintenance of investor relations. In the case of both Mr. Lynch and Mr. Wolsfeld, the Compensation Committee determined each executive achieved his individual performance objectives at a 100% achievement level.

Mr. Lynch received a total bonus of \$413,590 for fiscal 2018 and Mr. Wolsfeld received a total bonus of \$305,697 for fiscal 2018. The Board of Directors, upon recommendation of the Compensation Committee, determined to pay all bonuses in cash as opposed to a mix of cash and NTIC common stock in light of our cash and cash equivalent balance.

The structure and material terms of our annual bonus plan for fiscal 2018 are similar to the annual bonus plan for fiscal 2017. As in past years, the payment of bonuses under the plan for fiscal 2018 will be discretionary and may be paid to participants in cash and/or shares of NTIC common stock.

Long-Term Equity-Based Incentive Compensation. The long-term equity-based incentive compensation component of our executive compensation program consists of annual option grants to our executives and certain other employees. The stock options are typically granted on the first business day of each fiscal year.

Accordingly, on September 1, 2017, NTIC granted Mr. Lynch an option to purchase 5,852 shares of common stock and Mr. Wolsfeld an option to purchase 4,325 shares of common stock. These options vest over a three year period. More recently, on September 1, 2018, NTIC granted Mr. Lynch an option to purchase 13,798 shares of common stock and Mr. Wolsfeld an option to purchase 10,198 shares of common stock. These options will vest on the one-year anniversary of the grant date. In determining the number of stock options to grant to our executives and other employees, the Board of Directors, upon recommendation of the Compensation Committee, considered the total amount of stock-based compensation expense budgeted for such options and divided that amount by the grant date fair value per share to obtain a total option pool. Of the total option pool, the number of options to be granted to each executive and employee receiving options was then determined based on the individual's base salary as a percentage of the total aggregate base salaries of all executive and employees receiving option grants.

The Compensation Committee's primary objectives with respect to long-term equity-based incentive compensation are to align the interests of our executives with the long-term interests of our stockholders, promote stock ownership and create significant incentives for executive retention. Long-term equity-based incentives are intended to comprise a significant portion of each executive's compensation package, consistent with our executive compensation objective to align the interests of our executives with the interests of our stockholders. For fiscal 2018, equity-based compensation comprised 5.2% of the total compensation for Mr. Lynch and Mr. Wolsfeld, assuming grant date fair value for equity awards. All equity-based compensation granted to our executives and other employees is granted under the Northern Technologies International Corporation Amended and Restated 2007 Stock Incentive Plan, which was approved by the Board of Directors and our stockholders.

The Compensation Committee uses stock options as opposed to other equity-based incentive awards since the Compensation Committee believes that options effectively incentivize executives to maximize company performance, as the value of awards is directly tied to an appreciation in the value of our common stock. Stock options also provide an effective retention mechanism because of vesting provisions. An important objective of our long-term equity-based incentive program is to strengthen the relationship between the long-term value of our common stock and the potential financial gain for our executives. Stock options provide recipients with the opportunity to purchase our common stock at a price fixed on the grant date regardless of future market price. The vesting of our stock options is time-based – annually over a three-year period. Our policy is to grant options only with an exercise price equal to or more than the fair market value of our common stock on the grant date. Under the terms of our incentive plan, fair market value is defined as the mean between the reported high and low sale prices of our common stock as of the grant date during the regular daily trading session, as reported on the Nasdaq Global Market. Because stock options become valuable only if the share price increases above the exercise price and the option holder remains employed during the period required for the option to vest,

they provide an incentive for an executive to remain employed. In addition, stock options link a portion of an employee's compensation to the interests of our stockholders by providing an incentive to achieve corporate goals and increase the market price of our common stock over the three-year vesting period.

Although we do not have any stock retention or ownership guidelines, the Board of Directors encourages our executives to have a financial stake in our company in order to align the interests of our executives with the interests of our stockholders. Through the grant of stock options, we seek to align the long-term interests of our executives with the long-term interests of our stockholders by creating a strong and direct linkage between compensation and long-term stockholder return. When our executives deliver returns to our stockholders, in the form of increases in our stock price or otherwise, stock options permit an increase in their compensation. We also believe that stock options enable our executives to achieve a meaningful equity ownership in our company and enable us to attract, retain and motivate our executives by maintaining competitive levels of total compensation. As described in more detail below, under the terms of our insider trading policy, our executives are prohibited from engaging in any hedging or significant pledging of their shares of our common stock.

All Other Compensation. It is generally our policy not to extend significant perquisites to our executives that are not available to our employees generally. The only significant perquisite that we provide to our executives is the personal use of a company-owned vehicle. Our executives also receive benefits, which are also received by our other employees, including participation in the Northern Technologies International Corporation 401(k) Plan and health, dental and life insurance benefits. Under the 401(k) plan, all eligible participants, including our executives, may voluntarily request that we reduce his or her pre-tax compensation by up to 10% (subject to certain special limitations) and contribute such amounts to a trust. We typically contribute an amount equal to 50% of the first 7% of the amount that each participant contributed under this plan. We do not provide pension arrangements or post-retirement health coverage for our executives or employees. We also do not provide any nonqualified defined contribution or other deferred compensation plans.

Change in Control and Post-Termination Severance Arrangements

Change in Control Arrangements. To encourage continuity, stability and retention when considering the potential disruptive impact of an actual or potential corporate transaction, we have established change in control arrangements, including provisions in our stock incentive plan and written employment agreements with our executives. These arrangements are designed to incentivize our executives to remain with NTIC in the event of a change in control or potential change in control.

Under the terms of our stock incentive plan and the individual award documents provided to recipients of awards under that plan, all stock options become immediately vested and exercisable upon the completion of a change in control of NTIC. For more information, see “—*Potential Payments Upon Termination or Change in Control—Change in Control Arrangements.*” Thus, the immediate vesting of stock options is triggered by the change in control, itself, and thus is known as a “single trigger” change in control arrangement. We believe these “single trigger” equity acceleration change in control arrangements provide important retention incentives during what can often be an uncertain time for executives. They also provide executives with additional monetary motivation to focus on and complete a transaction that the Board of Directors believes is in the best interests of our stockholders rather than to seek new employment opportunities. If an executive were to leave before the completion of the change in control, non-vested options held by the executive would terminate.

In addition, we have entered into employment agreements with our named executive officers to provide certain payments and benefits in the event of a change in control, which are payable only in the event their employment is terminated in connection with the change in control (“double-trigger” provisions).

These change in control protections provide consideration to executives for certain restrictive covenants that apply following termination of employment and provide continuity of management in connection with a threatened or actual change in control transaction. If an executive's employment is terminated without "cause" or by the executive for "good reason" (as defined in the employment agreements) within 24 months following a change in control, the executive will be entitled to receive a lump sum payment equal to two times, in the case of the CEO, and one and one-half times, in the case of the CFO, his average total annual compensation for the two most recently completed fiscal years, plus a pro rata portion of the target bonus that the executive otherwise would have been eligible to receive under our bonus plan for the fiscal year during which the executive's employment is terminated, with such pro rata portion based on the number of completed months during the fiscal year that the executive was employed with our company. These arrangements, and a quantification of the payment and benefits provided under these arrangements, are described in more detail under "*—Potential Payments Upon Termination or Change in Control—Change in Control Arrangements.*" Other than the immediate acceleration of equity-based awards which we believe aligns our executives' interests with those of our stockholders by allowing executives to participate fully in the benefits of a change in control as to all of their equity, in order for a named executive officer to receive any other payments or benefits as a result of a change in control of NTIC, there must be a termination of the executive's employment, either by us without cause or by the executive for good reason. The termination of the executive's employment by the executive without good reason will not give rise to additional payments or benefits either in a change in control situation or otherwise. Thus, these additional payments and benefits will not just be triggered by a change in control, but also will require a termination event not within the control of the executive, and thus are known as "double trigger" change in control arrangements. As opposed to the immediate acceleration of stock options, we believe that other change in control payments and benefits should properly be tied to termination following a change in control, given the intent that these amounts provide economic security to ease in the executive's transition to new employment.

We believe these change in control arrangements are an important part of our executive compensation program in part because they mitigate some of the risk for executives working in a smaller company where there is a meaningful risk that the company may be acquired. Change in control benefits are intended to attract and retain qualified executives who, absent these arrangements and in anticipation of a possible change in control of NTIC, might consider seeking employment alternatives to be less risky than remaining with NTIC through the transaction. We believe that relative to our company's overall value, our potential change in control benefits are relatively small. We also believe that the form and amount of these change in control benefits are fair and reasonable to both our company and our executives. The Compensation Committee reviews our change of control arrangements periodically to ensure that they remain necessary and appropriate.

Other Severance Arrangements. Each of our named executive officers is entitled to receive severance benefits upon certain other qualifying terminations of employment, other than a change in control, pursuant to the provisions of such executive's employment agreement. These severance arrangements are primarily intended to retain our executives and provide consideration to those executives for certain restrictive covenants that apply following termination of employment. Additionally, we entered into the employment agreements because they provide us valuable protection by subjecting the executives to restrictive covenants that prohibit the disclosure of confidential information during and following their employment and limit their ability to engage in competition with us or otherwise interfere with our business relationships following their termination of employment. For more information on our employment agreements and severance arrangements with our named executive officers, see the discussions below under "*—Summary Compensation—Employment Agreements*" and "*—Potential Payments Upon a Termination or Change in Control.*"

We believe that the form and amount of these severance benefits are fair and reasonable to both our company and our executives. The Compensation Committee reviews our severance arrangements periodically to ensure that they remain necessary and appropriate.

Hedging and Pledging

Our insider trading policy prohibits officers and directors from purchasing NTIC securities on margin, borrowing against any account in which NTIC securities are held, or pledging NTIC securities in any significant respect as collateral for a loan. In addition, our insider trading policy prohibits employees (including executive officers) and directors from purchasing any financial instruments (including, without limitation, prepaid variable forward contracts, equity swaps, collars and exchange funds) that are designed to hedge or offset any decrease in the market value of NTIC securities.

Clawback Policy

In August 2018, we adopted a clawback policy pursuant to which we may recover certain incentive compensation from current or former executive officers in the event a financial metric used to determine the vesting or payment of incentive compensation to an executive was calculated incorrectly or the executive engaged in egregious conduct that is substantially detrimental to our company.

Summary of Cash and Other Compensation

The table below provides summary information concerning all compensation awarded to, earned by or paid to named executive officers. G. Patrick Lynch, our President and Chief Executive Officer who serves as our principal executive officer, and Matthew C. Wolsfeld, our Chief Financial Officer and Corporate Secretary who serves as our principal financial officer. Mr. Lynch and Mr. Wolsfeld are the only two individuals who have been designated by our Board of Directors as “executive officers” of our company.

SUMMARY COMPENSATION TABLE – FISCAL 2018

Name and Principal Position	Fiscal Year	Salary	Option Awards⁽¹⁾	Non-Equity Incentive Plan Compensation⁽²⁾	All Other Compensation⁽³⁾	Total
G. Patrick Lynch <i>President and Chief Executive Officer</i>	2018	\$389,962	\$ 45,353	\$ 413,590	\$ 13,102	\$ 862,007
	2017	357,763	61,796	153,998	13,102	586,659
Matthew C. Wolsfeld <i>Chief Financial Officer and Corporate Secretary</i>	2018	288,233	33,519	305,697	12,875	640,324
	2017	264,433	45,675	113,824	12,875	436,807

(1) On September 1, 2017, each of the named executive officers was granted a stock option under the Northern Technologies International Corporation Amended and Restated 2007 Stock Incentive Plan. We refer you to the information under the heading “*Compensation Review—Elements of Our Executive Compensation Program—Long-Term Equity-Based Incentive Compensation*” for a discussion of the option grants and their terms. The amounts reflected in the column entitled “Option Awards” for each officer represent the aggregate grant date fair value for the option awards, as computed in accordance with FASB ASC Topic 718. The grant date fair value is determined based on a Black-Scholes option pricing model. The grant date fair value per share for the options granted on September 1, 2017 was \$7.75 and was determined using the following specific assumptions: risk free interest rate: 1.87%; expected life: 10.0 years; expected volatility: 45.9%; and expected dividend yield: 0%.

- (2) The amounts reflected in the column entitled “Non-Equity Incentive Plan Compensation” reflect the cash amount of bonus earned by each of the officers in consideration for their fiscal 2018, 2017 and 2016 performance, respectively, but paid to such officers during fiscal 2019, 2018 and 2017, respectively. We refer you to the information under “*Compensation Review—Elements of Our Executive Compensation Program—Annual Incentive Compensation*” for a discussion of the factors taken into consideration by the Board of Directors, upon recommendation of the Compensation Committee, in determining the amount of bonus paid to each named executive officer.
- (3) The amounts shown in the column entitled “All Other Compensation” for fiscal 2018 include the following with respect to each named executive officer:

Name	401(k) Match	Personal Use of Auto
G. Patrick Lynch.....	\$ 8,750	\$ 4,352
Matthew C. Wolsfeld.....	8,750	4,125

Outstanding Equity Awards at Fiscal Year End

The table set forth below provides information regarding stock options for each of our named executive officers that remained outstanding at August 31, 2018. Note that because of the grant date, the table set forth below does not reflect option grants on September 1, 2018. We did not have any equity incentive plan awards or stock awards outstanding at August 31, 2018.

OUTSTANDING EQUITY AWARDS AT FISCAL YEAR END—FISCAL 2018

Name	Option Awards		Option Exercise Price (\$)	Option Expiration Date
	Number of Securities Underlying Unexercised Options (#) Exercisable	Number of Securities Underlying Unexercised Options (#) Unexercisable ⁽¹⁾		
G. Patrick Lynch.....	3,362	0	\$ 10.25	11/15/2022
	6,725	0	10.25	11/15/2022
	8,325	0	10.25	11/15/2022
	5,805	0 ¹⁾	14.70	08/31/2023
	5,244	0	20.10	08/31/2024
	4,858	2,429 ⁽²⁾	14.85	08/31/2025
	2,679	5,357 ⁽³⁾	13.40	08/31/2026
	0	5,852 ⁽⁴⁾	18.35	08/31/2027
Matthew C. Wolsfeld.....	2,485	0	10.25	11/15/2022
	4,971	0	10.25	11/15/2022
	6,153	0	10.25	11/15/2022
	4,291	0	14.70	08/31/2023
	3,876	0	20.10	08/31/2024
	3,590	1,796 ⁽²⁾	14.85	08/31/2025
	1,980	3,960 ⁽³⁾	13.40	08/31/2026
	0	4,325 ⁽⁴⁾	18.35	08/31/2027

- (1) All options described in this table were granted under the Northern Technologies International Corporation Amended and Restated 2007 Stock Incentive Plan. Under the plan, upon the occurrence of a change in control, the unvested and unexercisable options will be accelerated and become fully vested and immediately exercisable as of the date of the change in control. For more information, we refer you to the discussion below under “—*Stock Incentive Plan.*”
- (2) These options vest over a three-year period, with one-third of the underlying shares vesting on each of September 1, 2016, 2017 and 2018 so long as the individual remains an employee of NTIC as of such date.

- (3) These options vest over a three-year period, with one-third of the underlying shares vesting on each of September 1, 2017, 2018 and 2019 so long as the individual remains an employee of NTIC as of such date.
- (4) These options vest over a three-year period, with one-third of the underlying shares vesting on each of September 1, 2018, 2019 and 2020 so long as the individual remains an employee of NTIC as of such date.

Stock Incentive Plan

We have only one stock incentive plan under which stock options are currently outstanding and future stock incentive awards may be granted – the Northern Technologies International Corporation Amended and Restated 2007 Stock Incentive Plan. Under the terms of the 2007 plan, our named executive officers, in addition to other employees and individuals, are eligible to receive stock-based compensation awards, such as stock options, stock appreciation rights, restricted stock awards, stock bonuses and performance awards. To date, only incentive and non-statutory stock options and stock bonuses have been granted under the plan. The plan contains both an overall limit on the number of shares of our common stock that may be issued, as well as individual and other grant limits.

Incentive stock options must be granted with a per share exercise price equal to at least the fair market value of a share of our common stock on the date of grant. For purposes of the plan, the fair market value of our common stock is the mean between the reported high and low sale price of our common stock, as reported by the Nasdaq Global Market. We generally set the per share exercise price of all stock options granted under the plan at an amount equal to the fair market value of a share of our common stock on the date of grant.

Except in connection with certain specified changes in our corporate structure or shares, the Board of Directors or Compensation Committee may not, without prior approval of our stockholders, seek to effect any re-pricing of any previously granted, “underwater” option or stock appreciation right by amending or modifying the terms of the underwater option or stock appreciation right to lower the exercise price, cancelling the underwater option or stock appreciation right in exchange for cash, replacement options or stock appreciation rights having a lower exercise price, or other incentive awards, or repurchasing the underwater options or stock appreciation rights and granting new incentive awards under the plan. For purposes of the plan, an option or stock appreciation right is deemed to be “underwater” at any time when the fair market value of our common stock is less than the exercise price.

We generally provide for the vesting of stock options in equal annual installments over a three-year period commencing on the one-year anniversary of the date of grant for employees and in full on the one-year anniversary of the date of grant for directors. We generally provide for option terms of ten years.

Optionees may pay the exercise price of stock options in cash, except that the Compensation Committee may allow payment to be made (in whole or in part) by (1) using a broker-assisted cashless exercise procedure pursuant to which the optionee, upon exercise of an option, irrevocably instructs a broker or dealer to sell a sufficient number of shares of our common stock or loan a sufficient amount of money to pay all or a portion of the exercise price of the option and/or any related withholding tax obligations and remit such sums to us and directs us to deliver stock certificates to be issued upon such exercise directly to such broker or dealer; or (2) using a cashless exercise procedure pursuant to which the optionee surrenders to us shares of our common stock either underlying the option or that are otherwise held by the optionee.

Under the terms of the plan, unless otherwise provided in a separate agreement or amended in connection with an optionee's termination of employment, if a named executive officer's employment or service with our company terminates for any reason, the unvested portion of the options held by such officer will immediately terminate and the executive's right to exercise the then vested portion of the options will:

- immediately terminate if the executive's employment or service relationship with our company terminated for "cause";
- continue for a period of 12 months if the executive's employment or service relationship with our company terminates as a result of the executive's death, disability or retirement; or
- continue for a period of three months if the executive's employment or service relationship with our company terminates for any reason, other than for cause or upon death, disability or retirement.

As set forth in the plan, the term "cause" is as defined in any employment or other agreement or policy applicable to the named executive officer or, if no such agreement or policy exists, means (i) dishonesty, fraud, misrepresentation, embezzlement or other act of dishonesty with respect to us or any subsidiary, (ii) any unlawful or criminal activity of a serious nature, (iii) any intentional and deliberate breach of a duty or duties that, individually or in the aggregate, are material in relation to the overall duties, or (iv) any material breach of any employment, service, confidentiality or non-compete agreement entered into with us or any subsidiary.

Under the terms of the plan, if a participant is determined by the committee to have taken any action that would constitute "cause" or an "adverse action" during or within one year after the termination of the participant's employment or other service with our company, all rights of the participant under the plan and any agreements evidencing an award then held by the participant will terminate and be forfeited and the committee may require the participant to surrender and return to us any shares received, and/or to disgorge any profits or any other economic value made or realized by the participant in connection with any awards or any shares issued upon the exercise or vesting of any awards during or within one year after the termination of the participant's employment or other service. Additionally, as applicable, we may defer the exercise of any option or stock appreciation right for a period of up to six months after receipt of a participant's written notice of exercise or the issuance of share certificates upon the vesting of any incentive award for a period of up to six months after the date of such vesting in order for the committee to make any determination as to the existence of cause or an adverse action. An "adverse action" includes any of the following actions or conduct that the committee determines to be injurious, detrimental, prejudicial or adverse to our interests: (i) disclosing any confidential information of our company or any subsidiary to any person not authorized to receive it; (ii) engaging, directly or indirectly, in any commercial activity that in the judgment of the committee competes with our business or the business of any of our subsidiaries; or (iii) interfering with our relationships or the relationships of our subsidiaries and our and their respective employees, independent contractors, customers, prospective customers and vendors.

As described in more detail under "*—Post-Termination Severance and Change in Control Arrangements*" if there is a change in control of our company, then, under the terms of agreements evidencing options granted to our named executive officers and other employees under the plan, all outstanding options will become immediately exercisable in full and will remain exercisable for the remainder of their terms, regardless of whether the executive to whom such options have been granted remains in the employ or service of us or any of our subsidiaries.

Post-Termination Severance and Change in Control Arrangements

We have entered into employment agreements with G. Patrick Lynch, NTIC's President and Chief Executive Officer, and Matthew C. Wolsfeld, NTIC's Chief Financial Officer and Corporate Secretary. Although each of the executive's employment with our company remains "at will," the employment agreements provide each of the executive's certain severance benefits in the event the executive's employment is terminated by us without "cause" or by the executive for "good reason" and the executive executes and does not revoke a separation agreement and a release of all claims.

If an executive's employment is terminated by us without "cause" or by the executive for "good reason," in addition to any accrued but unpaid salary and benefits through the date of termination, the executive will be entitled to a severance cash payment from us in an amount equal to two times (one and one-half times, in the case of Mr. Wolsfeld) the executive's average total annual compensation for the two most recently completed fiscal years, plus a pro rata portion of the target bonus that the executive otherwise would have been eligible to receive under our bonus plan for the fiscal year during which the executive's employment is terminated, with such pro rata portion based on the number of complete months during the fiscal year that the executive was employed with our company. The severance payment will be paid in several installments in the form of salary continuation in accordance with our normal payroll practices over a 24-month period (18-month period, in the case of Mr. Wolsfeld). If, however, the termination event occurs within 24 months after a change in control of our company, the severance payment will be paid in one lump sum. If the executive is eligible for and timely elects continued coverage under our group medical plan, group dental plan and/or group vision plan pursuant to Section 4980B of the Internal Revenue Code of 1986, as amended (referred to as "COBRA"), for each of the first 18 months of the COBRA continuation period, we also will reimburse the executive in an amount equal to the difference between the amount the executive pays for such COBRA continuation coverage each month and the amount paid by a full-time active employee each month for the same level of coverage elected by the executive. In addition, all outstanding and unvested options to purchase shares of our common stock and other stock incentive awards granted to the executive under our stock incentive plan will become immediately vested and exercisable.

Under the employment agreements, "cause" is defined as (i) the executive's material breach of any of the executive's obligations under the employment agreement, or the executive's willful and continued failure or refusal to perform his duties, responsibilities and obligations as an executive officer of our company, for reasons other than the executive's disability, to the satisfaction of the Board of Directors; (ii) the executive's commission of an act of dishonesty, fraud, embezzlement, misappropriation, or intentional and deliberate injury or material breach of fiduciary duty, or material breach of the duty of loyalty related to or against us or our business, or any unlawful or criminal activity of a serious nature involving any felony, or conviction by a court of competent jurisdiction of, or pleading guilty or nolo contendere to, any felony or any crime involving moral turpitude; or (iii) the existence of any court order or settlement agreement prohibiting the executive's continued employment with our company. "Good reason" is defined as (i) a material diminution in the executive's authority, duties or responsibilities; (ii) a material diminution in the executive's annual base salary; (iii) a material change in the geographic location at which we require the executive to provide services, except for travel reasonably required in the performance of the executive's responsibilities; or (iv) any action or inaction that constitutes a material breach by us of the employment agreement. "Change in control" has the meaning assigned to such term in our stock incentive plan as in effect from time to time to the extent such change in control is a "change of control event" as defined under Code Section 409A and applicable Internal Revenue Service regulations. Under the terms of our stock incentive plan, a "change in control" means:

- the sale, lease, exchange or other transfer of all or substantially all of our assets to a corporation that is not controlled by us;

- the approval by our stockholders of any plan or proposal for our liquidation or dissolution;
- certain merger or business combination transactions;
- more than 40% of our outstanding voting shares are acquired by any person or group of persons who did not own any shares of common stock on the effective date of the plan; and
- certain changes in the composition of our Board of Directors.

If a change in control of our company had occurred on August 31, 2018, the number of options indicated in the table below held by each of our named executive officers would have been automatically accelerated and exercisable. The estimated value of the automatic acceleration of the vesting of unvested stock options held by a named executive officer as of August 31, 2018 is also indicated in the table below and is based on the difference between: (i) the market price of the shares of our common stock underlying the unvested stock options held by such officer as of August 31, 2018 (based on the closing sale price of our common stock on August 31, 2018 — \$36.40), and (ii) the exercise price of the options.

Executive Officer	Number of Unvested Options Subject to Automatic Acceleration	Estimated Value of Automatic Acceleration of Vesting
G. Patrick Lynch.....	13,638	\$ 281,193
Matthew C. Wolsfeld.....	10,081	207,831

If the employment of our named executive officers was terminated as of August 31, 2018, they would have been entitled to the following compensation and benefits, depending upon the applicable triggering event:

Executive Officer	Type of Payment	Triggering Event				
		Voluntary/ For Cause Termination	Involuntary Termination without Cause	Qualifying Change in Control Termination	Death	Disability
G. Patrick Lynch.....	Cash severance ⁽¹⁾	\$ 0	\$1,315,372	\$1,315,372	\$ 0	\$ 0
	Benefits continuation ⁽²⁾	0	29,940	29,940	0	0
	Equity acceleration ⁽³⁾	0	281,193	281,193	0	0
	Total:	\$ 0	\$1,626,505	\$1,626,505	\$ 0	\$ 0
Matthew C. Wolsfeld...	Cash severance ⁽¹⁾	\$ 0	\$ 729,173	\$ 729,173	\$ 0	\$ 0
	Benefits continuation ⁽²⁾	0	29,940	29,940	0	0
	Equity acceleration ⁽³⁾	0	207,831	207,831	0	0
	Total:	\$ 0	\$ 966,944	\$ 966,944	\$ 0	\$ 0

- (1) Includes the value of two times (one and one-half times, in the case of Mr. Wolsfeld) the executive's average total annual compensation for the two most recently completed fiscal years plus a pro rata portion of the target bonus that the executive otherwise would have been eligible to receive under our bonus plan for the fiscal year during which the executive's employment is terminated, which in this case in light of the assumed termination date of August 31, 2018, the last day of the fiscal year, represents the value of the full target bonus for the entire year.
- (2) Includes the value of medical, dental and vision benefit continuation for each executive and their family for 18 months following the executive's termination.
- (3) Includes the value of acceleration of all unvested shares that are subject to options, based on a closing sale price of \$36.40 per share as of August 31, 2018.

Indemnification Agreements

We have entered into agreements with all of our executive officers under which we are required to indemnify them against expenses, judgments, penalties, fines, settlements and other amounts actually and reasonably incurred, including expenses of a derivative action, in connection with an actual or threatened proceeding if any of them may be made a party because he or she is or was one of our executive officers. We will be obligated to pay these amounts only if the executive officer acted in good faith and in a manner that he or she reasonably believed to be in or not opposed to our best interests. With respect to any criminal proceeding, we will be obligated to pay these amounts only if the executive officer had no reasonable cause to believe his or her conduct was unlawful. The indemnification agreements also set forth procedures that will apply in the event of a claim for indemnification.

RELATED PERSON RELATIONSHIPS AND TRANSACTIONS

Introduction

Below under “—*Description of Related Party Transactions*” is a description of transactions that have occurred during the past fiscal year, or any currently proposed transactions, to which we were or are a participant and in which:

- the amounts involved exceeded or will exceed the lesser of: \$120,000 or one percent (1%) of the average of our total assets at year end for the last two completed fiscal years; and
- a related person (including any director, director nominee, executive officer, holder of more than 5% of our common stock or any member of their immediate family) had or will have a direct or indirect material interest.

These transactions are referred to as “related party transactions.”

Procedures Regarding Approval of Related Party Transactions

As provided in our Corporate Governance Guidelines, the Audit Committee will review, approve or ratify reportable related party transactions by use of the following procedures:

- NTIC’s Chief Financial Officer, with the assistance of NTIC’s legal counsel, will evaluate the disclosures provided in the director and officer questionnaires and from data obtained from NTIC’s records for potential related person transactions.
- Management will periodically, but no less than annually, report to the Audit Committee on all related person transactions that occurred since the beginning of the prior fiscal year or that it believes will occur in the next year. Such report should include information as to (i) the related person’s relationship to NTIC and interest in the transaction; (ii) the material facts of the transaction; (iii) the benefits to NTIC of the transaction; and (iv) an assessment of whether the transaction is (to the extent applicable) in the ordinary course of business, at arm’s length, at prices and on terms customarily available to unrelated third party vendors or customers generally, and whether the related party had any direct or indirect personal interest in, or received any personal benefit from, such transaction.
- Taking into account the factors listed above, and such other factors and information as the Audit Committee may deem appropriate, the Audit Committee will determine whether or not to approve or ratify (as the case may be) each related party transaction so identified.
- Transactions in the ordinary course of business, between NTIC and an unaffiliated corporation of which a non-employee director of NTIC serves as an officer, that are:
 - at arm’s length,
 - at prices and on terms customarily available to unrelated third party vendors or customers generally,
 - in which the non-employee director had no direct or indirect personal interest, nor received any personal benefit, and

- in amounts that are not material to NTIC's business or the business of such unaffiliated corporation,
- are deemed conclusively pre-approved.

Description of Related Party Transactions

Please see "*Director Compensation*" and "*Executive Compensation*" for information regarding a consulting agreement we have with one of our current directors and the other compensation arrangements with our directors and executive officers.

G. Patrick Lynch is the President and Chief Executive Officer of NTIC. Inter Alia Holding Company owns 13.3% of the total voting power of NTIC. According to a Schedule 13D/A filed with the SEC on December 2, 2011, Inter Alia Holding Company is an entity of which Mr. Lynch is a 25% stockholder. Mr. Lynch shares equal voting and dispositive power over such shares with three other members of his family. Inter Alia Holding Company's address is 23205 Mercantile Road, Beachwood, Ohio 44122.

NTIC has not identified any arrangements or agreements relating to compensation provided by a third party to NTIC's directors or director nominees in connection with their candidacy or board service as required to be disclosed pursuant to Nasdaq Rule 5250(b)(3).

STOCKHOLDER PROPOSALS AND DIRECTOR NOMINATIONS FOR 2020 ANNUAL MEETING OF STOCKHOLDERS

Stockholder Proposals for 2020 Annual Meeting

Stockholders who, in accordance with Rule 14a-8 under the Exchange Act, wish to present proposals for inclusion in the proxy materials relating to the 2020 Annual Meeting of Stockholders must submit their proposals so that they are received by us at our principal executive offices no later than the close of business on August 2, 2019, unless the date of the meeting is delayed by more than 30 calendar days. The proposals must satisfy the requirements of the proxy rules promulgated by the SEC and as the rules of the SEC make clear, simply submitting a proposal does not guarantee that it will be included.

Any other stockholder proposals to be presented at the 2020 Annual Meeting of Stockholders (other than a matter brought pursuant to SEC Rule 14a-8) must be given in writing to our Corporate Secretary and must be delivered to or mailed and received at our principal executive offices, not less than 90 days nor more than 120 days prior to the anniversary date of the 2020 Annual Meeting of Stockholders; provided, however, that in the event that the 2020 Annual Meeting of Stockholders is not held within 30 days before or after such anniversary date, notice by the stockholder to be timely must be received not later than the close of business on the 10th day following the day on which such notice of the date of the annual meeting was mailed or such public disclosure was made, whichever first occurs. The proposal must contain specific information required by our Amended and Restated Bylaws, a copy of which may be obtained by writing to our Corporate Secretary. If a proposal is not timely and properly made in accordance with the procedures set forth in our Amended and Restated Bylaws, it will be defective and may not be brought before the meeting. If the proposal is nonetheless brought before the meeting and the Chairman of the meeting does not exercise the power and duty to declare the proposal defective, the persons named in the proxy may use their discretionary voting with respect to the proposal.

Director Nominations for 2020 Annual Meeting

In accordance with procedures set forth in our Bylaws, NTIC stockholders may propose nominees for election to the Board of Directors only after providing timely written notice to our Corporate Secretary. To be timely, a stockholder's notice to the Corporate Secretary must be delivered to or mailed and received at NTIC's principal executive offices not less than 90 days nor more than 120 days prior to the anniversary date of the immediately preceding annual meeting; provided, however, that in the event that the annual meeting with respect to which such notice is to be tendered is not held within 30 days before or after such anniversary date, notice by the stockholder to be timely must be received not later than the close of business on the 10th day following the day on which such notice of the date of the meeting was mailed or public disclosure was made, whichever first occurs. The notice must set forth, among other things:

- the nominee's name, age, business address, residence address and record address;
- the nominee's principal occupation or employment;
- the class and number of shares of NTIC capital stock which are beneficially owned by the nominee;
- signed consent to serve as a director of NTIC; and

- any other information concerning the nominee required under the rules of the SEC in a proxy statement soliciting proxies for the election of directors.

Submissions must be made by mail, courier or personal delivery. E-mailed submissions will not be considered. The Nominating and Corporate Governance Committee will consider only those stockholder recommendations whose submissions comply with the procedural requirements set forth in NTIC's Bylaws. The Nominating and Corporate Governance Committee will evaluate candidates recommended by stockholders in the same manner as those recommended by others.

COPIES OF FISCAL 2018 ANNUAL REPORT

We have sent or made electronically available to each of our stockholders a copy of our annual report on Form 10-K (without exhibits) for the fiscal year ended August 31, 2018. The exhibits to our Form 10-K are available by accessing the SEC's EDGAR filing database at www.sec.gov. We will furnish a copy of any exhibit to our Form 10-K upon receipt from any such person of a written request for such exhibits upon the payment of our reasonable expenses in furnishing the exhibits. This request should be sent to: Northern Technologies International Corporation, 4201 Woodland Road, Circle Pines, Minnesota 55014, Attention: Stockholder Information.

Your vote is important. Whether or not you plan to attend the Annual Meeting in person, vote your shares of NTIC common stock by the Internet or telephone, or request a paper proxy card to sign, date and return by mail so that your shares may be voted.

By Order of the Board of Directors



Richard J. Nigon
Chairman of the Board

November 30, 2018
Circle Pines, Minnesota

**RESOLUTIONS OF THE BOARD OF DIRECTORS
REGARDING THE SHARE INCREASE AMENDMENT RATIFICATION**

Ratification of Share Increase Amendment

WHEREAS, on January 16, 2018, Northern Technologies International Corporation, a Delaware corporation (the “Company”), filed a Certificate of Amendment to the Company’s Restated Certificate of Incorporation setting forth an amendment (the “Share Increase Amendment”) that increased the authorized number of shares of common stock, par value \$0.02 per share (the “Common Stock”), from 10,000,000 shares to 15,000,000 shares;

WHEREAS, the Board of Directors (the “Board”) of the Company believes that such Share Increase Amendment was validly approved by the Board and by the Company’s stockholders at the Corporation’s 2018 Annual Meeting of Stockholders;

WHEREAS, as described in more detail below, the Board has been advised that questions have been raised regarding whether such Share Increase Amendment was properly approved; and

WHEREAS, in order to eliminate any uncertainty regarding the validity of such Share Increase Amendment, the Board has determined that it is advisable to adopt the following resolutions to ratify such actions pursuant to and in accordance with Section 204 of the Delaware General Corporation Law (the “DGCL”).

NOW, THEREFORE, BE IT RESOLVED, that

- (1) The potentially defective corporate act to be ratified by this resolution is the filing of, and the amendment effected by, the Certificate of Amendment to the Restated Certificate of Incorporation of the Company (the “Amendment”) filed with the Office of the Secretary of State of the State of Delaware (the “State Office”) on January 16, 2018.
- (2) The date of the filing of the Amendment with the State Office is January 16, 2018.
- (3) The nature of the failure of authorization in respect of the potentially defective corporate act identified in Paragraph (1) of this resolution are:

The Amendment was submitted to the Company’s stockholders for their approval at the Company’s 2018 Annual Meeting of Stockholders (the “2018 Annual Meeting”). At the 2018 Annual Meeting, the Company’s inspector of elections determined that the proposal to approve the Amendment received the requisite stockholder approval and certified that the proposal passed and the Company filed the Amendment with the State Office on January 16, 2018.

As part of the determination that the Amendment received the requisite stockholder approval, votes cast by nominees/brokers without instruction from the beneficial owners of certain of the Company’s outstanding shares were counted as votes in favor of the adoption of the Amendment in accordance with the rules of the New York Stock Exchange that govern how

brokers may cast such votes (the “Broker Votes”). The voting of these shares by the nominees/brokers without instruction from the beneficial owners was inconsistent with certain statements made in the Company’s proxy materials for its 2018 Annual Meeting, which stated that such a nominee/broker would not have authority to vote customers’ unvoted shares held by the firms in street name on the proposal to approve the Amendment, and thus such broker non-votes would have no effect on the results of the vote.

· If the Broker Votes were counted as votes “against” the proposal to approve the Amendment, the Amendment would not have been approved by the holders of a majority of the outstanding shares of the Common Stock, as required by Section 242 of the DGCL.

(4) The Board hereby approves, adopts and authorizes, in all respects, the ratification of the potentially defective corporate act identified in Paragraph (1) of this resolution pursuant to and in accordance with Section 204 of the DGCL.

Submission to Stockholders for Ratification

RESOLVED FURTHER, that the Board hereby directs that the potentially defective corporate act identified in the resolution set forth above under the heading “Ratification Resolution” shall be submitted to the stockholders of the Company’s for the stockholders to ratify such act under Section 204 of the DGCL and under common law, and the Board hereby recommends that stockholders ratify such potentially defective corporate act; and

RESOLVED FURTHER, that in connection with submitting the foregoing potentially defective corporate act to the stockholders for ratification, the Board hereby authorizes and directs each officer of the Company (acting alone) to provide notice to the Company’s stockholders (and all other persons entitled thereto) in accordance with Section 204(d) of the DGCL and, in connection therewith, each such officer is authorized to (among other things) include (i) a proposal relating to such ratification by the stockholders in the Company’s Notice of Meeting for the Corporation’s 2019 Annual Meeting of Stockholders, and in any proxy statement, proxy card, other proxy materials or voting instruction forms related thereto, and (ii) include in such Notice of Meeting (and related proxy materials) any other matter that is required by Section 204 of the DGCL.

Abandonment

RESOLVED FURTHER, that at any time before the “validation effective time,” as such term in used in Section 204 of the DGCL, in respect of the potentially defective corporate act identified in the foregoing resolutions, notwithstanding approval of the ratification of such potentially defective corporate act by stockholders of the Company, the Board may abandon the ratification of such potentially defective corporate act without further action of the stockholders of the Company.

Authorization to Prepare and File Certificate of Validation

RESOLVED FURTHER, that, following the ratification by the stockholders of the Company of the potentially defective corporate act identified in the foregoing resolutions, each officer of the Company (acting alone) is hereby authorized to execute a Certificate of Validation in respect of such potentially defective corporate act and to cause such Certificate of Validation to be filed with the State Office, with such Certificate of Validation to be in such form and filed at such time as any such officer may deem advisable (the advisability of which shall be conclusively evidenced by the execution and filing of such Certificate of Validation).

Common Law Ratification

RESOLVED FURTHER, that in addition to the ratification permitted by Section 204 of the DGCL, the Board hereby approves, adopts, confirms and ratifies the potentially defective corporate act identified in the foregoing resolutions for all purposes of, and to the fullest extent permitted by, the common law of Delaware or any other applicable law.

Miscellaneous

RESOLVED FURTHER, that each officer of the Company (acting alone) is hereby authorized to take any and all actions and to execute, deliver and file, any and all instruments, agreements and other documents, in the name of and on behalf of the Company, as any such officer deems advisable (the advisability of which shall be conclusively evidenced by the taking of such action or the execution, delivery or filing of such instrument, agreement or document), to carry out the intent and accomplish the purposes of the foregoing resolutions.

RESOLVED FURTHER, that the taking by any officer of the Company of any action authorized to be taken by such person in any of the preceding resolutions shall conclusively evidence the due authorization thereof by the Company.

RESOLVED FURTHER, that all actions heretofore taken by any director, officer or agent of the Company, for and on behalf of the Company, with respect to any of the matters referenced in the foregoing resolutions are hereby ratified, approved and confirmed in all respects.