

January 15, 2021

VIA E-MAIL (shareholderproposals@sec.gov)

Office of Chief Counsel
Division of Corporation Finance
U.S. Securities and Exchange Commission
100 F Street, NE
Washington, DC 20549

Re: IPG Photonics Corporation – Omission of Shareholder Proposal Submitted by Trillium Asset Management LLC

Dear Ladies and Gentlemen:

We refer to our letter dated January 12, 2021 (the “**No-Action Request**”), pursuant to which we requested that the staff of the Division of Corporation Finance (the “**Staff**”) of the U.S. Securities and Exchange Commission concur with IPG Photonics Corporation’s (the “**Company**”) view that it may exclude the shareholder proposal and supporting statement (the “**Proposal**”) submitted by Trillium Asset Management LLC (the “**Proponent**”), from the proxy materials to be distributed by the Company in connection with its 2021 annual meeting of shareholders.

Attached hereto as **Exhibit A** is an email, dated January 15, 2021 (the “Proponents’ Withdrawal Letter”), from the Proponents withdrawing the Proposal.

In reliance on the Proponent’s Withdrawal Letter, we hereby withdraw the No-Action Request.

If we can be of further assistance, or if the Staff should have any questions, please do not hesitate to contact me by telephone at (312) 558-5723 or by e-mail at *BToth@winston.com*.

Sincerely,

/s/ Bruce A. Toth

Bruce A. Toth
Winston & Strawn LLP

Enclosures

cc: Angelo Lopresti

EXHIBIT A

Proponent's Withdrawal Letter

[see attached]

From: [Susan Baker](#)
To: [Shareholder Proposals](#)
Cc: [Pietrangelo, Oriana](#); [Angelo Lopresti](#); [Toth, Bruce](#)
Subject: IPG Photonics (IPGN) No- action Request
Date: Friday, January 15, 2021 11:18:50 AM
Attachments: [Trillium-Constant-Contact-Header_96b1142b-4f19-4921-8dac-2c2c2c5f44441111.png](#)

Trillium Asset Management is in receipt of IPG Photonics' no-action request, has met with the company and subsequently withdrawn the proposal.

I expect that you will hear from IPG soon regarding withdrawal of the no action request. Please let me know if you need any additional information.

Sincerely,

Susan Baker

Susan Baker | Director of Shareholder Advocacy
Trillium | Boston
P:617-532-6681 | E: SBaker@trilliuminvest.com | Fax: 617-482-6179



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Dear Ladies and Gentlemen:

Pursuant to Rule 14a-8(j) of the Securities Exchange Act of 1934, as amended (the “**Exchange Act**”), our client, IPG Photonics Corporation, a Delaware corporation (the “**Company**” or “**IPG**”), hereby requests confirmation that the staff of the Division of Corporation Finance (the “**Staff**”) of the U.S. Securities and Exchange Commission (the “**Commission**” or “**SEC**”) will not recommend any enforcement action to the Commission if the Company omits from its proxy statement and form of proxy for its 2021 Annual Meeting of Stockholders (collectively, the “**2021 Proxy Materials**”) the shareholder proposal attached hereto as **Exhibit A** (the “**Proposal**”) and the statement in support thereof (the “**Supporting Statement**”) submitted by Trillium Asset Management LLC (the “**Proponent**”), which was dated November 2, 2020 and are further described herein.

In accordance with Rule 14a-8(j) of the Exchange Act, we are:

- submitting this letter no later than eighty calendar days before the Company intends to file the definitive 2021 Proxy Materials with the Commission; and
- simultaneously sending a copy of this letter and its exhibits to the Proponent, thereby notifying the Proponent of the Company’s intention to exclude the Proposal from its 2021 Proxy Materials.

Also, in accordance with Staff Legal Bulletin No. 14D (November 7, 2008) (“**SLB No. 14D**”), we are submitting this letter for no-action relief to the Commission via e-mail to shareholderproposals@sec.gov (in lieu of providing six additional copies of this letter pursuant to Rule 14a-8(j) of the Exchange Act), and the undersigned has included his name and telephone number both in this letter and the cover email accompanying this letter.

Pursuant to the guidance provided in Section F of Staff Legal Bulletin No. 14F (October 18, 2011), we ask that, if the Staff responds to this request for no-action relief in writing, the Staff provide its response to the undersigned via e-mail at the address noted in the last paragraph of this letter.

Rule 14a-8(k) of the Exchange Act and SLB No. 14D provide that shareholder proponents are required to send companies a copy of any correspondence that such proponent elects to submit to the Commission or the Staff. Accordingly, we hereby inform the Proponent that, if the Proponent elects to submit additional correspondence to the Commission or the Staff relating to the Proposal, the Proponent

should concurrently furnish a copy of such correspondence to the undersigned on behalf of the Company pursuant to Rule 14a-8(k) of the Exchange Act and SLB No. 14D.

THE PROPOSAL

The Proposal presents the following resolution:

Resolved: Shareholders request that the Board of Directors prepare a report (at a reasonable cost, in a reasonable time, and omitting confidential information) providing its assessment of the current state of its management team diversity and if and how it plans to make the company's management more diverse in terms of race, ethnicity, and gender.

A complete copy of the Proposal and the Supporting Statement, together with the Company's correspondence with the Proponent relating to the Proposal, are attached hereto as **Exhibit A**, pursuant to Staff Legal Bulletin No. 14C (June 28, 2005) ("**SLB No. 14C**").

BACKGROUND OF THE COMPANY

IPG is the leader in high-power fiber lasers and amplifiers used primarily in materials processing and other diverse applications. The Company's portfolio of laser solutions are used in materials processing, communications, medical and advanced applications. IPG sells its products globally to original equipment manufacturers, system integrators and end users. IPG markets its products internationally, primarily through its direct sales force. The Company's major manufacturing facilities are located in the United States, Germany and Russia. A member of the S&P 500® Index, IPG is headquartered in Oxford, Massachusetts and has more than 25 facilities worldwide.

IPG began operations in 1990 and was incorporated in Delaware in 1998. The Company has a history of retaining its key executives. The Company's Chief Executive Officer and Chairman, Dr. Valentin Gapontsev, founded the Company and has successfully led IPG and the Board since its formation. Other members of the Company's executive team also have a long tenures with the Company, each over ten years. Dr. Eugene A. Scherbakov, Chief Operating Officer, Managing Director of IPG Laser GmbH ("**IPG Laser**") and Senior Vice President of Europe joined the Company in 1995 as the Technical Director of IPG Laser. Timothy P.V. Mammen, Chief Financial Officer and Senior Vice President has served as the Company's Chief Financial Officer since July 2000. The Company's Senior Vice President, General Counsel and Secretary, Angelo P. Lopresti joined IPG in February 2001. Dr. Alexander Ovtchinnikov, the Company's Vice President, Components, began his career at IPG in 2001 as the Director of Material Sciences. Trevor Ness, now Senior Vice President, World Wide Sales and Marketing, joined IPG in 2011 as Vice President-Asian Operations. Felix Stukalin, Senior Vice President, North American Operations, previously was IPG's Vice President, Devices when he started in March 2009. Finally, Igor Samartsev, has served as IPG's Chief Technology Officer since 2011 and was a co-founder of IPG in the 1990s.

The absence of turnover of the Company's executive team and promotions within the Company should not be considered a failing of IPG's diversity efforts or worse, an indication of no commitment to diversity. IPG's definitive proxy statement for the 2020 annual meeting of stockholders (the "**2020 Proxy Statement**"), as filed with the Commission on April 7, 2020, sets forth the Company's current approach to

promote the Company's diversity and inclusion initiatives.¹ The 2020 Proxy Statement is attached hereto as **Exhibit B**. One such initiative involves the Board of Director's (the "**Board**") succession planning. In the 2020 Proxy Statement, the Company has disclosed the importance of Board member diversity.² As the culmination of a process started well before receipt of the Proposal, the NCGC recommended and the Board approved the appointment of Jeanmarie Desmond and Natalia Pavlov to the Board on January 7, 2021. As result, three of four new directors who joined the Board since 2016 are female.³ Gender diverse candidates have been and continue to be included in Board searches.⁴

The 2020 Proxy Statement also notes that the Company is fully committed to its ongoing efforts to promote diversity and provides examples, such as, the executive team making the hiring and promoting of women and minorities a priority, which correspondingly accounted for an improvement in diversity.⁵ The Company discloses that women and minorities comprise 40% of the Company's global management below the executive level.⁶ The Company also states that as a result of increased diversity, its affirmative action plans are exceeding their goals.⁷ The 2020 Proxy Statement also discloses that IPG maintains a microsite on its website, which provides potential candidates the opportunity to see the Company's diversity initiatives and a view into its diverse and inclusive culture and workforce.⁸

The Company's microsite related to "Diversity and Inclusion" can be found under the "Our People and Communities" heading on the "Corporate Social Responsibility" link on the "Our Company" page of the website.⁹ The "Diversity and Inclusion" microsite discusses the Company's approach to diversity and efforts the Company undertakes to further diversity initiatives throughout the organization. The Company discloses that over the past three years it has begun targeted hiring and key promotions of women and minorities to its technical staff including Scientists and Engineers.¹⁰ IPG also discusses its partnerships with organizations like the Society of Women Engineers, the Southeast Asian Coalition, and major universities that include large populations of women and minorities in STEM related curriculum (University of Pennsylvania, CREOL – University of Central Florida).¹¹ Also found on the Company's website is its 2020 Sustainability Report further discussed below and attached hereto as **Exhibit C**.¹²

In December 2020, the Company published its first comprehensive sustainability report, which it will update periodically, that details the Company's commitment to the environment, governance, and its employees including diversity, culture and inclusion.¹³ Specifically, IPG discloses that it recognizes the

¹ See 2020 Proxy Statement at 62. The 2020 Proxy Statement is publicly available at <https://www.sec.gov/Archives/edgar/data/1111928/000111192820000061/ipgphotonicsproxy2020.htm> and <https://investor.ipgphotonics.com/financials/annual-reports-and-proxies/default.aspx>.

² 2020 Proxy Statement at 22.

³ *Id.*

⁴ *Id.*

⁵ *Id.* at 62.

⁶ *Id.*

⁷ *Id.*

⁸ *Id.*

⁹ *Id.* See also [https://www.ipgphotonics.com/en/company#\[social-responsibility\]](https://www.ipgphotonics.com/en/company#[social-responsibility]).

¹⁰ *Id.*

¹¹ *Id.*

¹² The 2020 Sustainability Report is available publicly: <https://www.ipgphotonics.com/en/company#>.

¹³ *Id.*

importance of a balance workforce and strives to employ and promote women into leadership positions across all IPG locations.¹⁴ The Company discusses that although the Company's executive team has a long tenure with no impactful turnover, IPG still makes diversity a priority. The Company requires search firms seek female and diverse candidates for open positions.¹⁵

The report includes data on the percentage of senior leaders and managers by gender, including that the leadership team in China is 50% female.¹⁶ Executive diversity is presented in a graphic disclosing that one executive was born in Africa, one in the Middle East, two in Europe, four in North America and six in Russia.¹⁷ It also provides a breakdown of female employees by region throughout the world, including that 43% of the workforce in Russia is female.¹⁸ Finally, it includes data regarding the Company's global workforce by gender.¹⁹

While the report highlights inroads the Company has made towards diversity, especially at the management level, it acknowledges in the report that it will continue to look for opportunities to increase diversity.²⁰ This includes during regular sessions with management, the Board will receive updates on the Company's progress in its diversity efforts. The report also states the Board will provide feedback to management on (a) improving the management's team diversity and (b) better reporting of the outcome of these efforts to the Company's stakeholders.²¹

BASIS FOR EXCLUSION OF THE PROPOSAL

For the reasons discussed herein, we hereby respectfully request that the Staff concur in the Company's view that the Proposal may be properly excluded from the 2021 Proxy Materials pursuant to Rule 14a-8(i)(10) of the Exchange Act ("**Rule 14a-8(i)(10)**") because the Company has substantially implemented the Proposal.

¹⁴ 2020 Sustainability Report at 28.

¹⁵ *Id.* at 27.

¹⁶ *Id.*

¹⁷ *Id.*

¹⁸ *Id.*

¹⁹ *Id.*

²⁰ *Id.*

²¹ *Id.*

ANALYSIS

I. The Proposal may be excluded under Rule 14a-8(i)(10) because the Company has substantially implemented the Proposal.

A. Background

Rule 14a-8(i)(10) permits a company to exclude a shareholder proposal from its proxy materials “[i]f the company has already substantially implemented the proposal.” In 1976, the Commission stated that the predecessor to Rule 14a-8(i)(10) was “designed to avoid the possibility of shareholders having to consider matters which already have been favorably acted upon by the management.” *See* Proposed Amendments to Rule 14a-8 Under the Securities Act of 1934 Relating to Proposals by Security Holders, Exchange Act Release No. 34-12598 (July 7, 1976) (the “**1976 Release**”). Originally, the Staff narrowly interpreted this predecessor rule and granted no-action relief only when a proposal was “‘fully’ effected” by the company. *See* Proposed Amendments to Rule 14a-8 Under the Securities Exchange Act of 1934 Relating to Proposals by Security Holders, Exchange Act Release No. 34-19135 (Oct. 14, 1982). By 1983, the Commission recognized that the “previous formalistic application of [the Rule] defeated its purpose” because proponents were successfully convincing the Staff to deny no-action relief by submitting proposals that differed from existing company policy by only a few words. *See* Amendments to Rule 14a-8 Under the Securities Exchange Act of 1934 Related to Proposals by Security Holders, Exchange Act Release No. 34-20091 (Aug. 16, 1983) (the “**1983 Release**”). The Commission subsequently adopted this revised interpretation of the rule to permit the omission of proposals that have been “substantially implemented.” *Id.* The 1998 amendments to Rule 14a-8 of the Exchange Act codified this position. *See* Amendments to Rules on Shareholder Proposals, Exchange Act Release No. 34-40018 (May 21, 1998) (the “**1998 Release**”).

When a company has demonstrated that it has already taken actions to address the underlying concerns and essential objectives of a shareholder proposal, the Staff has concurred that the proposal has been “substantially implemented” and may be excluded as moot. *See* the 1983 Release. In 1998, the Commission reiterated that “substantial” implementation under the rule does not require the company to implement a shareholder proposal fully or exactly as presented or preferred by the proponent. *See* the 1998 Release. The Staff has noted that “a determination that the [c]ompany has substantially implemented the proposal depends upon whether [the company’s] particular policies, practices and procedures compare favorably with the guidelines of the proposal.” *See Texaco, Inc.* (Mar. 28, 1991).

Accordingly, the Staff has permitted differences between a company’s actions and a shareholder proposal when the company’s actions satisfactorily address the proposal’s underlying concerns and its “essential objective,” even when the manner by which a company implements the proposal does not correspond precisely to the actions sought by the proponent. *See MGM Resorts International* (Feb. 28, 2012) (concurring with exclusion pursuant to Rule 14a-8(i)(10) of a proposal requesting a report on the company’s sustainability policies and performance and recommending the use of the standardized metrics, where the company published an annual sustainability report that did not use such metrics or include all of the topics covered therein); *Exelon Corp.* (Feb. 26, 2010) (concurring with exclusion of a proposal requesting a report on certain aspects of the company’s political contributions because the company already adopted corporate political contribution guidelines and issued a related report that,

together, provided “an up-to-date view of the [c]ompany’s policies and procedures with regard to political contributions” addressing the proposal’s essential objective); *The Dow Chemical Co.* (Mar. 5, 2008) (concurring with exclusion of a proposal requesting a report discussing how the company’s efforts to ameliorate climate change have affected the global climate because the company already made statements about its efforts related to climate change in various corporate documents and disclosures); and *Talbots Inc.* (April 5, 2002) (concurring with exclusion of a proposal requesting implementation of a code of corporate conduct based on United Nations International Labor Organization standards because the company already established its own business practice standards).

Companies may also demonstrate substantial implementation by referring to a combination of various existing corporate disclosures, even if the proposal requests one report. *See Energy Corp.* (Feb. 14, 2014) (allowing exclusion of a proposal for a sustainability report where the relevant disclosures appeared in a company report and on the company’s website); and *Duke Energy Corp.* (Feb. 21, 2012) (permitting exclusion of a proposal requesting a report that the company assess potential actions to reduce greenhouse gas and other emissions, where the required information was available in the company’s Form 10-K and annual sustainability report).

B. Application of Commission and Staff Precedent to the Proposal

In 2019, the Proponent sent IPG a nearly identical shareholder proposal to the Proposal at issue, requesting the Board prepare a report providing its assessment of the current state of its management team diversity and if and how it plans to make the company’s management team more diverse in terms of race, ethnicity, and gender, which is attached as **Exhibit D**.²² Last year’s proposal was included in the Company’s 2020 Proxy Statement²³ and was defeated, receiving 45% of votes cast at the 2020 Annual Meeting of Stockholders.²⁴ As a result of the previous proposal and its voting results, the Company’s Nominating and Corporate Governance Committee (the “**Committee**”) met twice to review the prior proposal and to discuss how the Company should respond to it. After deliberation, the Committee supported a plan for the Company to prepare and publish a sustainability report by the end of 2020 to better illustrate its commitment to corporate social responsibility, including diversity and inclusion.²⁵ The Sustainability Report was published in December 2020 after review by the Board.

The Proponent requests in the current Proposal that the Company’s Board prepare a report providing an assessment of the current state of its management team diversity and if and how it plans to make the Company’s management team more diverse in terms of race, ethnicity and gender.²⁶ In the Supporting Statement, the Proposal states that these disclosures could include use of “Rooney Rule” practices, and hiring, retention and promotion rates of women, Black, Indigenous and people of color across employment.²⁷

²² See *Exhibit D*.

²³ 2020 Proxy Statement at 61.

²⁴ See *Exhibit A*.

²⁵ See *Exhibit C*.

²⁶ See *Exhibit A*.

²⁷ *Id.*

Based on the discussion included in the Proposal, the Proponent’s “essential objective” is to steer the Company’s attention toward the promotion of diversity efforts throughout the organization, and increase disclosures of the Company’s current diversity initiatives and diversity data among management to highlight what the Proponent believes to be a failure of the Company to make diversity a priority. As illustrated below, the Company has substantially implemented the Proposal because:

1. The Company has prepared a sustainability report that achieves the essential objective, which is disclosure of the Company’s diversity efforts and data on senior leaders and managers based on gender; and
2. The Company’s existing policies and programs achieve the Proposal’s essential objective of focusing the Company’s attention on implementing certain diversity efforts to improve diversity throughout management,

each as discussed more fully below.

1. ***The Company has prepared a sustainability report that achieves the essential objective, which is disclosure of the Company’s diversity efforts and data on senior leaders and managers based on gender.***
 - a. **The 2020 Sustainability Report includes a discussion of the Company’s diversity efforts and plans.**

The Proposal requests IPG provide in a report how the Company plans to make its management more diverse and as outlined, the 2020 Sustainability Report provides the plan forward for greater diversity. The Company places a very high value on diversity and the importance of diversity for the future of the Company as discussed in its 2020 Sustainability Report. IPG outlines in its report the great strides it has made to increase diversity in manager positions and building internal resources for potential future executive openings.²⁸ The Company recruits and develops diverse candidates for available leadership and other positions at the Company by posting on national and local diversity job boards and maintaining partnerships with organizations and community groups that focus on the needs of minority candidates, including Circa, who partners with over 7,000 community and diversity organizations; National Society of Black Engineers (NSBE); Society of Hispanic Professional Engineers (SHPE); Society of Women Engineers (SWE); Black Tech Pipeline; Universities with diversity groups such as: Stony Brook, Worcester Polytechnic Institute (WPI), Rochester Institute of Technology (RIT), University of Pennsylvania (UPenn), the University of Central Florida College of Optics and Photonics (CREOL); and various local high schools in Metro Worcester, Massachusetts.

The Company requires its search firms to seek female and diverse candidates for executive and non-executive positions.³⁰ The Company has made a public commitment, as disclosed in the 2020 Sustainability Report, to require search firms to seek female and diverse candidates.³¹ This follows from the Board’s adoption of a policy to require director search firms include female and diverse candidates in its candidates pools.³² These types of policies are often referred to as the “Rooney Rule,” which the

²⁸ 2020 Sustainability Report at 27.

³⁰ *Id.*

³¹ *Id.*

³² *Id.*

Proponent references in the Supporting Statement in the Proposal.³³ Although the Proponent may want immediate change to the ranks of management, the Company's adoption of these policies is the fastest way to bring diversity to leadership without casting aside other important values such as institutional knowledge and tenure. Over time we believe the Proponent will see the diversity it seeks.

In 2020, IPG partnered with the internship program INROADS, an international non-profit organization designed to promote ethnic diversity across the corporate world. As a national sponsor of INROADS, IPG gained access to talent, including two of the class students and recent alumni to join the Company's operations in the United States.³⁴ The Company disclosed it also began a relationship at the national level with the Society of Hispanic Professional Engineers and Society of Women Engineers, where it plans to work on developing programs for corporate sponsorships as well mentoring and interning opportunities.³⁵ The Company also actively recruits at universities having higher than average populations of women and minorities in STEM related programs and is an active member of the Boston College Workforce Roundtable – part of the Boston College Center for Work & Family.³⁶

The Company acknowledges in the Sustainability Report that despite the changes the Company has implemented and as discussed herein, it still has work ahead to being a more diverse and inclusive organization.³⁷ As mentioned previously, this will include at Board meetings during regular sessions with management, the Board will receive updates on the Company's progress in its diversity efforts.³⁸ The Sustainability Report also states the Company's plan for the Board to provide feedback to management on (a) improving the management's team diversity and (b) better reporting of the outcome of these efforts to the Company's stakeholders.³⁹

b. The 2020 Sustainability Report includes data on the Company's employees and management based on gender, and management diversity.

The Supporting Statement requests a report including disclosures such as "hiring, retention and promotion rates."⁴⁰ The Company does not dispute that the executive management team does not have any women. As previously discussed, the Company's executive management does not have enough turnover where any data would have any meaningful use. The most recent hire to the executive team was in 2011, nine years ago. Instead, the Company compiled more meaningful data regarding the levels below the executive team. The 2020 Sustainability Report includes a chart showing the percentage of female and male senior leaders and managers worldwide; the Company's global workforce by gender; and the breakdown of the Company's female employees by world region at year-end 2019.⁴¹ In China, 50% of the leadership team is female.⁴²

³³ See Exhibit A.

³⁴ 2020 Sustainability Report at 27.

³⁵ *Id.*

³⁶ *Id.*

³⁷ 2020 Sustainability Report at 28.

³⁸ *Id.*

³⁹ *Id.*

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- submitting this letter no later than eighty calendar days before the Company intends to file the definitive 2021 Proxy Materials with the Commission; and
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THE PROPOSAL

The Proposal presents the following resolution:

Resolved: Shareholders request that the Board of Directors prepare a report (at a reasonable cost, in a reasonable time, and omitting confidential information) providing its assessment of the current state of its management team diversity and if and how it plans to make the company's management more diverse in terms of race, ethnicity, and gender.

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BACKGROUND OF THE COMPANY

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promote the Company's diversity and inclusion initiatives.¹ The 2020 Proxy Statement is attached hereto as **Exhibit B**. One such initiative involves the Board of Director's (the "**Board**") succession planning. In the 2020 Proxy Statement, the Company has disclosed the importance of Board member diversity.² As the culmination of a process started well before receipt of the Proposal, the NCGC recommended and the Board approved the appointment of Jeanmarie Desmond and Natalia Pavlov to the Board on January 7, 2021. As result, three of four new directors who joined the Board since 2016 are female.³ Gender diverse candidates have been and continue to be included in Board searches.⁴

The 2020 Proxy Statement also notes that the Company is fully committed to its ongoing efforts to promote diversity and provides examples, such as, the executive team making the hiring and promoting of women and minorities a priority, which correspondingly accounted for an improvement in diversity.⁵ The Company discloses that women and minorities comprise 40% of the Company's global management below the executive level.⁶ The Company also states that as a result of increased diversity, its affirmative action plans are exceeding their goals.⁷ The 2020 Proxy Statement also discloses that IPG maintains a microsite on its website, which provides potential candidates the opportunity to see the Company's diversity initiatives and a view into its diverse and inclusive culture and workforce.⁸

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¹ See 2020 Proxy Statement at 62. The 2020 Proxy Statement is publicly available at <https://www.sec.gov/Archives/edgar/data/1111928/000111192820000061/ipgphotonicsproxy2020.htm> and <https://investor.ipgphotonics.com/financials/annual-reports-and-proxies/default.aspx>.

² 2020 Proxy Statement at 22.

³ *Id.*

⁴ *Id.*

⁵ *Id.* at 62.

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⁷ *Id.*

⁸ *Id.*

⁹ *Id.* See also [https://www.ipgphotonics.com/en/company#\[social-responsibility\]](https://www.ipgphotonics.com/en/company#[social-responsibility]).

¹⁰ *Id.*

¹¹ *Id.*

¹² The 2020 Sustainability Report is available publicly: <https://www.ipgphotonics.com/en/company#>.

¹³ *Id.*

importance of a balance workforce and strives to employ and promote women into leadership positions across all IPG locations.¹⁴ The Company discusses that although the Company's executive team has a long tenure with no impactful turnover, IPG still makes diversity a priority. The Company requires search firms seek female and diverse candidates for open positions.¹⁵

The report includes data on the percentage of senior leaders and managers by gender, including that the leadership team in China is 50% female.¹⁶ Executive diversity is presented in a graphic disclosing that one executive was born in Africa, one in the Middle East, two in Europe, four in North America and six in Russia.¹⁷ It also provides a breakdown of female employees by region throughout the world, including that 43% of the workforce in Russia is female.¹⁸ Finally, it includes data regarding the Company's global workforce by gender.¹⁹

While the report highlights inroads the Company has made towards diversity, especially at the management level, it acknowledges in the report that it will continue to look for opportunities to increase diversity.²⁰ This includes during regular sessions with management, the Board will receive updates on the Company's progress in its diversity efforts. The report also states the Board will provide feedback to management on (a) improving the management's team diversity and (b) better reporting of the outcome of these efforts to the Company's stakeholders.²¹

BASIS FOR EXCLUSION OF THE PROPOSAL

For the reasons discussed herein, we hereby respectfully request that the Staff concur in the Company's view that the Proposal may be properly excluded from the 2021 Proxy Materials pursuant to Rule 14a-8(i)(10) of the Exchange Act ("**Rule 14a-8(i)(10)**") because the Company has substantially implemented the Proposal.

¹⁴ 2020 Sustainability Report at 28.

¹⁵ *Id.* at 27.

¹⁶ *Id.*

¹⁷ *Id.*

¹⁸ *Id.*

¹⁹ *Id.*

²⁰ *Id.*

²¹ *Id.*

together, provided “an up-to-date view of the [c]ompany’s policies and procedures with regard to political contributions” addressing the proposal’s essential objective); *The Dow Chemical Co.* (Mar. 5, 2008) (concurring with exclusion of a proposal requesting a report discussing how the company’s efforts to ameliorate climate change have affected the global climate because the company already made statements about its efforts related to climate change in various corporate documents and disclosures); and *Talbots Inc.* (April 5, 2002) (concurring with exclusion of a proposal requesting implementation of a code of corporate conduct based on United Nations International Labor Organization standards because the company already established its own business practice standards).

Companies may also demonstrate substantial implementation by referring to a combination of various existing corporate disclosures, even if the proposal requests one report. *See Energy Corp.* (Feb. 14, 2014) (allowing exclusion of a proposal for a sustainability report where the relevant disclosures appeared in a company report and on the company’s website); and *Duke Energy Corp.* (Feb. 21, 2012) (permitting exclusion of a proposal requesting a report that the company assess potential actions to reduce greenhouse gas and other emissions, where the required information was available in the company’s Form 10-K and annual sustainability report).

B. Application of Commission and Staff Precedent to the Proposal

In 2019, the Proponent sent IPG a nearly identical shareholder proposal to the Proposal at issue, requesting the Board prepare a report providing its assessment of the current state of its management team diversity and if and how it plans to make the company’s management team more diverse in terms of race, ethnicity, and gender, which is attached as **Exhibit D**.²² Last year’s proposal was included in the Company’s 2020 Proxy Statement²³ and was defeated, receiving 45% of votes cast at the 2020 Annual Meeting of Stockholders.²⁴ As a result of the previous proposal and its voting results, the Company’s Nominating and Corporate Governance Committee (the “**Committee**”) met twice to review the prior proposal and to discuss how the Company should respond to it. After deliberation, the Committee supported a plan for the Company to prepare and publish a sustainability report by the end of 2020 to better illustrate its commitment to corporate social responsibility, including diversity and inclusion.²⁵ The Sustainability Report was published in December 2020 after review by the Board.

The Proponent requests in the current Proposal that the Company’s Board prepare a report providing an assessment of the current state of its management team diversity and if and how it plans to make the Company’s management team more diverse in terms of race, ethnicity and gender.²⁶ In the Supporting Statement, the Proposal states that these disclosures could include use of “Rooney Rule” practices, and hiring, retention and promotion rates of women, Black, Indigenous and people of color across employment.²⁷

²² *See Exhibit D.*

²³ 2020 Proxy Statement at 61.

²⁴ *See Exhibit A.*

²⁵ *See Exhibit C.*

²⁶ *See Exhibit A.*

²⁷ *Id.*

Based on the discussion included in the Proposal, the Proponent’s “essential objective” is to steer the Company’s attention toward the promotion of diversity efforts throughout the organization, and increase disclosures of the Company’s current diversity initiatives and diversity data among management to highlight what the Proponent believes to be a failure of the Company to make diversity a priority. As illustrated below, the Company has substantially implemented the Proposal because:

1. The Company has prepared a sustainability report that achieves the essential objective, which is disclosure of the Company’s diversity efforts and data on senior leaders and managers based on gender; and
2. The Company’s existing policies and programs achieve the Proposal’s essential objective of focusing the Company’s attention on implementing certain diversity efforts to improve diversity throughout management,

each as discussed more fully below.

1. ***The Company has prepared a sustainability report that achieves the essential objective, which is disclosure of the Company’s diversity efforts and data on senior leaders and managers based on gender.***
 - a. **The 2020 Sustainability Report includes a discussion of the Company’s diversity efforts and plans.**

The Proposal requests IPG provide in a report how the Company plans to make its management more diverse and as outlined, the 2020 Sustainability Report provides the plan forward for greater diversity. The Company places a very high value on diversity and the importance of diversity for the future of the Company as discussed in its 2020 Sustainability Report. IPG outlines in its report the great strides it has made to increase diversity in manager positions and building internal resources for potential future executive openings.²⁸ The Company recruits and develops diverse candidates for available leadership and other positions at the Company by posting on national and local diversity job boards and maintaining partnerships with organizations and community groups that focus on the needs of minority candidates, including Circa, who partners with over 7,000 community and diversity organizations; National Society of Black Engineers (NSBE); Society of Hispanic Professional Engineers (SHPE); Society of Women Engineers (SWE); Black Tech Pipeline; Universities with diversity groups such as: Stony Brook, Worcester Polytechnic Institute (WPI), Rochester Institute of Technology (RIT), University of Pennsylvania (UPenn), the University of Central Florida College of Optics and Photonics (CREOL); and various local high schools in Metro Worcester, Massachusetts.

The Company requires its search firms to seek female and diverse candidates for executive and non-executive positions.³⁰ The Company has made a public commitment, as disclosed in the 2020 Sustainability Report, to require search firms to seek female and diverse candidates.³¹ This follows from the Board’s adoption of a policy to require director search firms include female and diverse candidates in its candidates pools.³² These types of policies are often referred to as the “Rooney Rule,” which the

²⁸ 2020 Sustainability Report at 27.

³⁰ *Id.*

³¹ *Id.*

³² *Id.*

Proponent references in the Supporting Statement in the Proposal.³³ Although the Proponent may want immediate change to the ranks of management, the Company's adoption of these policies is the fastest way to bring diversity to leadership without casting aside other important values such as institutional knowledge and tenure. Over time we believe the Proponent will see the diversity it seeks.

In 2020, IPG partnered with the internship program INROADS, an international non-profit organization designed to promote ethnic diversity across the corporate world. As a national sponsor of INROADS, IPG gained access to talent, including two of the class students and recent alumni to join the Company's operations in the United States.³⁴ The Company disclosed it also began a relationship at the national level with the Society of Hispanic Professional Engineers and Society of Women Engineers, where it plans to work on developing programs for corporate sponsorships as well mentoring and interning opportunities.³⁵ The Company also actively recruits at universities having higher than average populations of women and minorities in STEM related programs and is an active member of the Boston College Workforce Roundtable – part of the Boston College Center for Work & Family.³⁶

The Company acknowledges in the Sustainability Report that despite the changes the Company has implemented and as discussed herein, it still has work ahead to being a more diverse and inclusive organization.³⁷ As mentioned previously, this will include at Board meetings during regular sessions with management, the Board will receive updates on the Company's progress in its diversity efforts.³⁸ The Sustainability Report also states the Company's plan for the Board to provide feedback to management on (a) improving the management's team diversity and (b) better reporting of the outcome of these efforts to the Company's stakeholders.³⁹

b. The 2020 Sustainability Report includes data on the Company's employees and management based on gender, and management diversity.

The Supporting Statement requests a report including disclosures such as "hiring, retention and promotion rates."⁴⁰ The Company does not dispute that the executive management team does not have any women. As previously discussed, the Company's executive management does not have enough turnover where any data would have any meaningful use. The most recent hire to the executive team was in 2011, nine years ago. Instead, the Company compiled more meaningful data regarding the levels below the executive team. The 2020 Sustainability Report includes a chart showing the percentage of female and male senior leaders and managers worldwide; the Company's global workforce by gender; and the breakdown of the Company's female employees by world region at year-end 2019.⁴¹ In China, 50% of the leadership team is female.⁴²

³³ See Exhibit A.

³⁴ 2020 Sustainability Report at 27.

³⁵ *Id.*

³⁶ *Id.*

³⁷ 2020 Sustainability Report at 28.

³⁸ *Id.*

³⁹ *Id.*

⁴⁰ See Exhibit A.

⁴¹ 2020 Sustainability Report at 28.

⁴² *Id.*

Further, as mentioned above, the 2020 Sustainability Report discloses executive diversity, which addresses the proponent's request regarding management diversity.⁴³ While the disclosure provided in the 2020 Sustainability Report does not include all of the suggested disclosure information in the Supporting Statement, the Staff does not require implementation full or exactly as presented by the proponent. (*See the 1998 Release*). The Company has substantially complied by supplying data that gets to the essence of the Proposal, by showing the current state of gender diversity among managers and leaders of IPG outside of the executive team. Not complying with every suggestion the Proponent has provided in the Proposal should not be grounds for denial. (*See MGM Resorts International* (Feb. 28, 2012); *ConAgra Foods, Inc.* (July 3, 2006); and *Johnson & Johnson* (Feb. 17, 2006).

CONCLUSION

After the Proponent's 2019 proposal, the Company's Board, in particular, the Committee considered the appropriate response to such proposal, and as a result, the Company published the 2020 Sustainability Report, the Company's first such report. The Proponent's Proposal is nearly identical to the proposal in 2019 and the Company's 2020 Sustainability Report such fundamentally encompasses and patently addresses all of the objectives and concerns raised in the Proposal and Supporting Statement.

The Staff has permitted differences between a company's actions and a shareholder proposal if the company's actions satisfactorily address the proposal's essential objectives, even when the company did not take the exact action requested by the proponent, did not implement the proposal in every detail or exercised discretion in determining how to implement the proposal. *See Walgreens supra* (concurring with exclusion of a proposal requesting a report describing the company's implementation plans ensuring its policies and practices advance and do not undermine sustainable development goals because the company's corporate social responsibility report addressed its efforts to contribute to such goals); *Entergy Corp. supra* (concurring with exclusion of a proposal requesting a report "on policies the company could adopt to take additional near-term actions to reduce its greenhouse gas emissions," despite the fact that the company's existing related disclosures and report did not address the ability to make such reductions, because the company already provided environmental sustainability disclosures on its website and in a separate report); and *ExxonMobil Corporation* (Mar. 17, 2011) (concurring with exclusion of a proposal requesting a report on the company's steps taken to address ongoing safety concerns because the company's "public disclosures compare[d] favorably" with the proposal guidelines). *See also The Procter & Gamble Co.* (Aug. 4, 2010) (concurring with exclusion of a proposal requesting a water policy based on United Nations principles because the company already adopted its own water policy); *Wal-Mart Stores, Inc.* (Mar. 30, 2010) (concurring with exclusion of a proposal requesting adoption of global warming principles because the company had policies reflecting at least to some degree the proposed principles); *ConAgra Foods, Inc. supra* (concurring with exclusion of a proposal requesting a sustainability report because the company was already providing information generally of the type proposed to be included in the report); and *The Gap, supra* (concurring with exclusion of a proposal requesting a report on child labor practices of company suppliers because the company already had established a code of vendor conduct, monitored compliance, published information relating thereto and discussed labor issues with shareholders).

⁴³ *Id.*

The Committee considered the Proponent's request and the votes of stockholders and recommended to the Board and management that a report should be issued. The Company then prepared a sustainability report that among other topics, outlined IPG's diversity assessment, diversity policies and programs to increase representation among women and minorities in leadership positions. The Company require search firms to seek female and diverse candidates, similar to the Rooney Rule policy for board vacancies. It also discussed the changes it has made to improve diversity throughout the Company including partnering with organizations that are dedicated to focusing on the needs of minorities and women in engineering. As a result of the actions taken by the Company, the Proponent's Proposal has already been implemented. The 2020 Sustainability Report gets to the essence of the Proposal, it allows shareholders the opportunity to see the Company's plans to improve diversity throughout the organization and see where diversity representation stands today at executive and non-executive levels. The Company acknowledges it has work to do, but that was not the essence of the Proposal. Instead, the Proponent submitting the Proposal wanted to see where the Company's diversity plans were heading and the 2020 Sustainability Report provides a map.

Based on the foregoing analysis, we respectfully request that the Staff concur with the Company's view and confirm that the Staff will not recommend enforcement action to the Commission if the Company omits the Proposal from its 2021 Proxy Materials.

If you have any questions, or if the Staff is unable to concur with the Company's view without additional information or discussions, we respectfully request the opportunity to confer with members of the Staff prior to the issuance of any written response to this letter. Please do not hesitate to contact me by telephone at (312) 558-5723 or by e-mail at BToth@winston.com.

Sincerely,

/s/ Bruce A. Toth

Bruce A. Toth
Winston & Strawn LLP

Enclosures

cc: Angelo Lopresti

EXHIBIT A

Proposal and Supporting Statement

[see attached]

TRILLIUM

November 17, 2020

Angelo Lopresti
General Counsel and Secretary
IPG Photonics Corp
50 Old Webster Road
Oxford, MA 01540

Dear Secretary

Trillium Asset Management LLC ("Trillium") is an investment firm based in Boston specializing in socially responsible asset management. We currently manage approximately \$3 billion for institutional and individual clients.

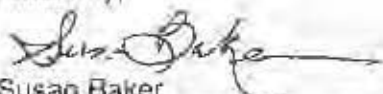
As requested and authorized by Episcopal City Mission, Trillium Asset Management as our client's investment advisor, hereby submits the enclosed shareholder proposal with IPG Photonics Corp. for inclusion in the 2021 proxy statement and in accordance with Rule 14a-8 of the General Rules and Regulations of the Securities and Exchange Act of 1934 (17 C.F.R. § 240.14a-8). Per Rule 14a-8, Episcopal City Mission holds more than \$2,000 of the company's common stock, acquired more than one year prior to today's date and held continuously for that time. As evidenced in the attached letter, Episcopal City Mission will remain invested in this position continuously through the date of the 2021 annual meeting. We will forward verification on Episcopal City Mission's behalf of the position separately. Episcopal City Mission will send a representative to the stockholders' meeting to move the shareholder proposal as required by the SEC rules.

We would welcome discussion with IPG Photonics Corp. about the contents of the proposal.

Please direct any communications to me at (617) 532-681 or via email at sbaker@trilliuminvest.com.

We would appreciate receiving a confirmation of receipt of this letter via email.

Sincerely,



Susan Baker
Director of Shareholder Advocacy
Trillium Asset Management, LLC

Cc: Valentin P. Gapontsev
Chairman and Chief Executive Officer

Enclosures

Susan Baker
Director of Shareholder Advocacy
Trillium Asset Management, LLC
Two Financial Center
80 South Street, Suite 1100
Boston, MA 02111

Email: sbaker@trilliuminvest.com

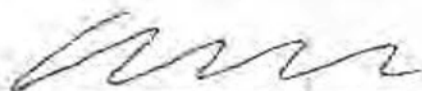
Dear Ms. Baker:

I hereby request Trillium Asset Management, LLC to file a shareholder proposal on behalf of Episcopal City Mission at IPG Photonics on the subject of executive leadership diversity.

Episcopal City Mission is the beneficial owner of more than \$2,000 of IPG Photonics common stock that they have continuously held for more than one year. Episcopal City Mission intends to hold the aforementioned shares of stock continuously through the date of the company's annual meeting in 2021.

I specifically give Trillium Asset Management, LLC authority to deal, on behalf of Episcopal City Mission, with any and all aspects of this specific shareholder proposal. This authorization will terminate upon the conclusion of the company's 2021 annual meeting. Episcopal City Mission intends all communications from the company and its representatives to be directed to Trillium Asset Management, LLC. I understand that Episcopal City Mission's name may appear on the corporation's proxy statement as the filer of the aforementioned shareholder proposal.

Sincerely,



Andree Savinier, Chair- Finance Committee
Episcopal City Mission

11/21/2020

DATE

Diversity in Executive Leadership

WHEREAS:

We believe that diversity, inclusive of gender and race, are critical attributes of a well-functioning executive team and necessary to meaningfully drive diversity throughout an organization. Currently, IPG Photonics' management team has no women and an undeterminable number of people of color.¹

The business case for workforce diversity is compelling. McKinsey & Company found in 2015, 2017, and again in 2019 that companies with highly diverse executive teams had higher returns on equity and earnings performance than those with low diversity.² Further, McKinsey reports an increased likelihood of financial outperformance in each successive study. ISS Analytics examined companies where the CEO had a tenure of at least three years and found companies that combined gender diversity in the boardroom and the C-Suite showed, overall, the best results in terms of risk-adjusted quality of performance. (ISS Analytics /Governance Insights/October, 2018)

Yet, the number of women and people of color in leadership roles remains low. Nine percent of top executive roles in the Russell 3000 are held by women. Black men and women hold just 3 percent of executive or senior-level roles, according to Equal Employment Opportunity Commission data.

Racial discrimination and violence leading to protests in nearly every corner of the U.S. in 2020 has compelled more corporate leaders to examine current practices and set quantitative diversity goals, specifically for racial and ethnicity diversity. For example, Alphabet, Wells Fargo³, Starbucks, and Citigroup⁴ announced diversity goals to expand diversity in the executive ranks. Alphabet's Google committed to increase underrepresented groups in leadership by 30 percent by 2025⁵ and Starbucks states that in five years it wants each of the five job levels in its corporate group to be comprised of at least 30 percent people of color.⁶

IPG Photonics has resisted recent shareholder requests to report on its assessment of management team diversity. At the 2020 annual meeting, according to our calculations, this proposal received the support of 45% of the votes cast. However, the board has not acted on this important signal from its shareholders.

RESOLVED: Shareholders request that the Board of Directors prepare a report (at a reasonable cost in a reasonable time, and omitting confidential information) providing its assessment of the current state of its management team diversity and if and how it plans to make the company's management team more diverse in terms of race, ethnicity, and gender.

Supporting Statement: A report adequate for investors to assess IPG Photonics' strategy and performance could include disclosures such as use of "Rooney Rule" practices, and hiring, retention and promotion rates of women, Black, Indigenous and people of color across employment.

¹ <https://investor.ipgphotonics.com/governance/management-team/default.aspx>

² McKinsey & Company, *Diversity Wins: How inclusion matters*, S. Dixon-Lyle, K. Dolan, V. Hunt, S. Prince, May, 2020

³ <https://www.bloomberg.com/news/articles/2020-06-16/wells-fargo-ties-senior-executives-pay-to-improving-diversity>

⁴ https://www.citigroup.com/citi/about/esg/download/2019-diversity_2019_english.pdf?ieNoache=28

⁵ <https://blog.google/inside-google/company-announcements/commitments-racial-equity/>

⁶ <https://stories.starbucks.com/stories/2020-workforce-diversity-at-starbucks/>

Pietrangelo, Oriana

From: Angelo Lopresti <Alopresti@ipgphotonics.com>
Sent: Thursday, January 7, 2021 2:09 PM
To: Sbak@trilliuminvest.com
Subject: Engagement Regarding Shareholder Proposal

Dear Ms. Baker: I wish you a Happy New Year and I hope that you and your family are health and safe.

I indicated in our discussions in 2020 that IPG planned to prepare and issue its first CSR report. It released it in December. The report took a good amount of time as we revised and adopted new policies during the pandemic. I suggest you review as it covers some of the topics we talked about last year. [https://www.ipgphotonics.com/en/company#\[social-responsibility\]](https://www.ipgphotonics.com/en/company#[social-responsibility])

IPG will make an announcement later today that you will be interested in.

I would welcome the opportunity to have a discussion regarding your proposal in the coming days. Please let me know you availability.

Sincerely,

Angelo P. Lopresti
General Counsel, Senior Vice President and Secretary
IPG Photonics Corporation
Direct: 508-373-1123
Fax: 508-373-1134
www.ipgphotonics.com
alopresti@ipgphotonics.com



EXHIBIT B

2020 Annual Proxy Statement

[see attached]

The Power to
Transform®



Notice of 2020 Annual Meeting & Proxy Statement



IPG Photonics Corporation

2020 Annual Letter

Valentin P. Gapontsev, Ph.D.
Chairman and Chief Executive Officer



To Our Stockholders,

Although 2019 proved to be a challenging year, we demonstrated good progress in a number of key growth initiatives. We delivered product cost reductions and differentiated new features and accessories for our core products. Furthermore, we are leveraging one of the largest R&D investments in the laser industry to launch leading edge laser products and systems for new markets to enhance our growth and margin profile and provide greater geographic and end market diversification. The weaker global macroeconomic backdrop, US-China trade conflict and a more intense competitive landscape in China affected our 2019 financial performance. As a result of these challenges, we experienced a significant decrease in the average selling prices for our products in China, which reduced the dollar value of the laser cutting market. Although we shipped a record number of high power lasers, increasing laser units at 1 kilowatt or greater by 23%, achieving revenue growth was challenging. Despite this challenge, we continue to see customers in the laser cutting market adopt higher power solutions. We increased sales of lasers at 10 kilowatts or greater by more than 25%, even though the second half of the year was weaker for these ultra high power solutions.

However, multiple IPG customers are launching new cutting systems using our 12 kilowatt lasers, and we increased sales of 20 kilowatt lasers for cutting applications 8-fold. Many of these are sold with our new ultra high power cutting heads. In addition, we sold our first lasers with high peak power (HPP) and adjustable mode beam (AMB) capability. HPP products deliver peak energy twice the average power of the laser, increasing cutting speed and quality while reducing scrap through closer nesting of parts. Our new AMB lasers permit the broadest range of beam tunability, enabling spatterless welding and enhancing the speed of electric vehicle battery production. When combined with our unique high power pulsed lasers for foil cutting and ultra high power continuous wave (CW) lasers for welding, we see significant opportunities in the electric vehicle battery market in 2020 and beyond.

Augmenting our laser solutions with high power optical heads is a key differentiator versus our laser competitors. In 2019, we delivered record sales of optical heads and other beam delivery accessories, growing sales of these products by 10%. We also shipped our first volume orders of our Laser Depth Dynamics (LDD) process monitoring systems, our patented real-time weld monitoring solution. LDD enables greater use of laser-based welding in automated production environments, and we are pursuing multiple million dollar plus opportunities with this technology and associated laser product sales.

Further, we sold a record number of systems for materials processing in 2019 with revenue increasing 33% excluding Genesis, acquired in December 2018. Standard and custom systems for vehicle and battery production, medical device manufacturing, pipe welding, cleaning and inspection applications drove systems growth. We plan to leverage Genesis' expertise in robotic systems integration to accelerate laser processing within the transportation, aerospace and industrial end markets.

We are leveraging one of the largest R&D investments in the laser industry to launch leading edge laser products and systems for new markets.

Product innovation remains core to our success and the source of growth over the coming years. In 2019, new product sales were 19% of total revenue and 24% in the fourth quarter alone. Sales of green pulsed lasers used to improve solar cell efficiency increased by more than 60% in 2019. Sales of ultrafast pulsed lasers increased more than 80% year over year off a small base, with more than 50 new projects for these lasers across a wide range of applications processing glass, ceramics, circuit boards, OLED film, batteries and solar cells. We plan to enhance the pulse energy and expand the portfolio of new green, ultraviolet and ultrafast pulsed lasers to increase our available markets.

Sales of medical lasers increased 80% in 2019 as our fiber laser-based system solution received approvals in China and the US. We expect sales into urology and other soft tissue applications to ramp over the coming years off a low base. Our lithotripsy medical laser application uses consumable fibers, which have the potential to develop into a more meaningful recurring revenue stream as the number of installed systems increases. We continue to invest in transformative new products for new application areas as well, including new medical treatments, mid-infrared lasers for spectroscopy, inspection and sensing applications, and ultra high power single mode lasers for aerospace and defense.

We have one of the strongest balance sheets in the industrial automation industry, with more than \$1 billion net cash and ample liquidity. This strength allows us to prioritize R&D investments and capital expenditures focusing on long-term objectives - diversifying our business with new products, finding new markets and driving innovations to maintain and increase margins. In 2019, we spent \$130 million on research and development and \$134 million on capital expenditures for these purposes. In addition, we repurchased \$41 million worth of stock and have offset all dilution from employee equity compensation since our anti-dilutive repurchase program began in July 2016.

We believe we have significant long-term growth opportunities in laser welding, fine processing of electric vehicle batteries and our portfolio of new products addressing opportunities in micro processing, medical, systems and beam delivery solutions. Within our core business, we believe there is no company that can deliver high power laser solutions at our quality, scale, cost and lead time. We will rely on our core scientific strengths to optimize investment in strategic initiatives critical to the long-term success of the Company, enabling IPG to deliver strong growth in revenue and cash flow.

I want to thank our talented employees for their hard work during a difficult year. I would also like to thank you, our stockholders, for your loyalty and support. As ever, I remain confident in our ability to execute during this more challenging period and deliver on our mission to make our fiber laser technology the tool of choice in mass production.

VALENTIN P. GAPONTSEV, PH.D.

Chairman and Chief Executive Officer

April 1, 2020

We have significant long-term growth opportunities.

We will rely on our core scientific strengths to optimize investment in strategic initiatives, enabling IPG to deliver strong growth in revenue and cash flow.

Notice of Annual Meeting of Stockholders



DATE AND TIME

May 28, 2020
10:00 AM (Eastern Time)



LOCATION

IPG Photonics Corporation
50 Old Webster Road
Oxford, Massachusetts 01540



WHO CAN VOTE

Only stockholders of record at the close of business on April 1, 2020 may vote at the Annual Meeting

Voting Items

Proposals	Board Vote Recommendation	For Further Details
1 Election of nine directors named in this proxy statement	✓ FOR each director nominee	Page 12
2 Advisory approval of our executive compensation	✓ FOR	Page 37
3 Ratification of the appointment of Deloitte & Touche LLP as our independent registered public accounting firm for 2020	✓ FOR	Page 58
4 A stockholder proposal, if properly presented at the Annual Meeting	✗ AGAINST	Page 61

Stockholders will also transact any other business that may properly come before the meeting.

You may vote on these matters in person or by proxy. **Whether or not you plan to attend the Annual Meeting, we ask that you promptly vote your shares.**

We are monitoring coronavirus (COVID-19) developments and the related recommendations and protocols issued by public health authorities and federal, state, and local governments. If we determine that alternative Annual Meeting arrangements are advisable or required, which may include switching to a virtual meeting format, or changing the time, date or location of the Annual Meeting, then we will announce our decision via press release and the filing of additional proxy materials with the Securities and Exchange Commission. Please monitor our investor website (investor.ipgphotonics.com) in advance of the Annual Meeting date if you are planning to attend in person. Food and drink will not be served as in past years.

By order of the Board of Directors
IPG PHOTONICS CORPORATION

ANGELO P. LOPRESTI

Secretary
April 1, 2020
Oxford, Massachusetts

How to Vote



INTERNET

Go to www.investorvote.com/ipgp or scan the QR code contained in the attached proxy card



TELEPHONE

1-800-652-VOTE (8683)



MAIL

Mark, sign, date and promptly mail the enclosed proxy card in the postage-paid envelope

As permitted by the rules of the United States Securities and Exchange Commission (the "SEC"), we are making this Proxy Statement and Annual Report on Form 10-K available to stockholders electronically via the Internet at investor.ipgphotonics.com. On or about April 9, 2020, we will mail to most of our stockholders a notice (the "Notice") containing instructions on how to access this Proxy Statement and our Annual Report and to vote via the Internet or by telephone. Other stockholders, in accordance with their prior requests, will receive e-mail notification of how to access our proxy materials and vote via the Internet or by telephone, or will be mailed paper copies of our proxy materials and a proxy card on or about April 9, 2020.

Proxy Statement Summary

This summary highlights information available within our proxy statement. You should consider all of the information available in this proxy statement (the "Proxy Statement") and our Annual Report on Form 10-K for fiscal year 2019 ("Annual Report") prior to voting your shares. Page references are supplied to help you find further information in this Proxy Statement. In this Proxy Statement, the terms "IPG", the "Company", "we" and "our" refer to IPG Photonics Corporation.

Company Overview

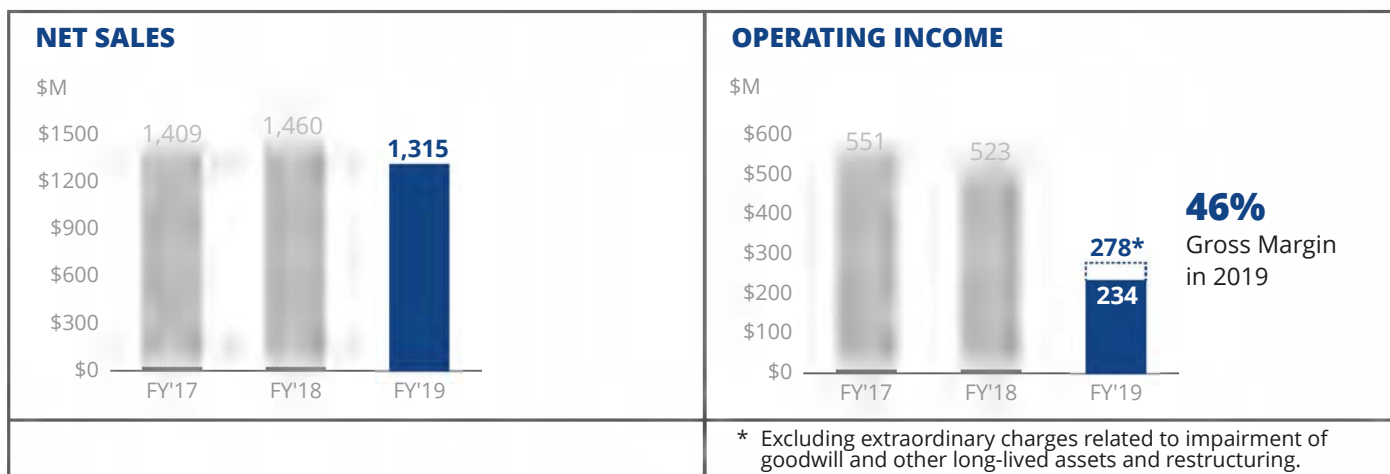
IPG Photonics Corporation is the world leader in fiber laser technology, enabling greater precision, higher productivity and more flexible production for industrial applications and other diverse end markets. The Company has a vertically-integrated business model, producing key components of its technology in-house, enabling more powerful and efficient solutions with rapid ongoing cost reduction. Within industrial applications, automated production and miniaturization trends are driving replacement of mechanical machine tools with IPG laser-based solutions. In other end markets, IPG is introducing new products that more than double our addressable market while diversifying end market exposure.

Performance Highlights

2019 Highlights

Despite industrial demand headwinds within our largest markets, IPG delivered industry-leading profit and operating cash flow while introducing new solutions that significantly enhance our competitive position and addressable market.

Financial Performance



Financial Highlights









- Shipped a record number of high power lasers and increased sales of lasers at 10 kilowatts or greater by more than 25%
- Given weaker industrial demand trends resulting from escalation of the US-China trade conflict and macroeconomic challenges in our largest regions, revenue in 2019 decreased by 10%
- As we enhance our capability in providing complete laser solutions to end customers, we sold a record number of laser systems for materials processing in 2019
- We are leveraging one of the largest R&D investments in the laser industry to launch leading edge products, and in 2019 new product sales were 19% of total revenue
- Because of lower absorption of fixed costs in our vertically-integrated business model, lower product pricing, foreign exchange headwinds and other factors, our industry-leading gross margin declined to 46%
- We delivered operating cash flow of \$324 million
- We have one of the strongest balance sheets in the industrial automation industry, with more than \$1 billion net cash and ample liquidity at December 31, 2019

Voting Items

<p>Proposal</p> <p style="font-size: 2em; font-weight: bold;">1</p>	<p>Election of Nine Directors</p> <p>The Board recommends a vote FOR each director nominee named in this Proxy Statement.</p> <p>↗ See page 12</p>
--	--

Director Nominees

The following provides summary information about each director nominee for our Board of Directors (the "Board").

	Name and Principal Occupation	Age	Director Since	Committee Membership		
				AC	CC	NCGC
	Valentin P. Gapontsev, Ph.D. Chief Executive Officer and Chairman of the Board	81	1998			
	Eugene A. Scherbakov, Ph.D. Chief Operating Officer Managing Director, IPG Laser GmbH	72	2000			
	Igor Samartsev Chief Technology Officer	57	2006			
	Michael C. Child IND Senior Advisor, T.A. Associates, Inc.	65	2000			●
	Gregory P. Dougherty IND Former CEO, Oclaro, Inc.	60	2019	●	●	
	Catherine P. Lego IND Professional board director	63	2016	●	●	
	Eric Meurice IND Former President, CEO and Chairman, ASML Holding NV	63	2014		●	●
	John R. Peeler Presiding Independent Director Chairman, Veeco Instruments, Inc.	65	2012		●	●
	Thomas J. Seifert IND Chief Financial Officer, Cloudflare, Inc.	56	2014	●		●

AC Audit Committee

CC Compensation Committee

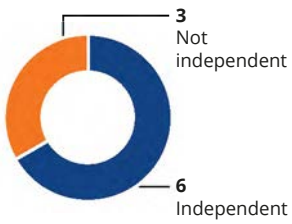
NCGC Nominating and Corporate Governance Committee

● Chair

● Member

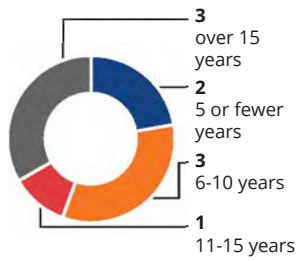
Board Snapshot*

DIRECTOR INDEPENDENCE



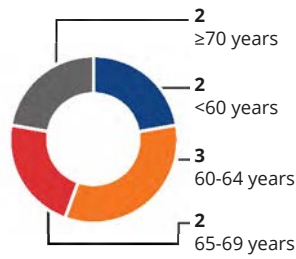
6/9
directors are independent**

BALANCED TENURE



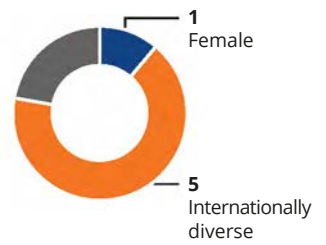
11 years
Average Tenure

AGE



65 years
Average Age

DIVERSITY



Over 50%
Diverse

* Following the Annual Meeting

** Audit, Compensation and Nominating and Corporate Governance Committees are composed entirely of independent directors

Skills and Experience*



Lasers and Technology

6/9



Business Development and M&A

8/9



Financial Literacy

9/9



Risk Management

9/9



Global Business

9/9



Executive Leadership

7/9



Manufacturing and Operating

7/9



Other Public Company Boards

6/9

* Following the Annual Meeting

Corporate Governance Highlights

- | | | |
|---|--|---|
| <ul style="list-style-type: none"> ✓ Stockholder proxy access right adopted in March 2019 ✓ Director majority voting policy adopted October 2018 ✓ Ongoing Board refreshment: 1 independent director added in 2019, for a total of 2 directors added in 4 prior fiscal years ✓ Supermajority of independent directors and 100% independent Board committees | <ul style="list-style-type: none"> ✓ 55% of Board members come from internationally diverse backgrounds ✓ 11% of Board members are women ✓ Presiding independent director ✓ Single class of voting stock and no supermajority voting provisions ✓ Annual election of all directors ✓ Stockholder right to act by written consent | <ul style="list-style-type: none"> ✓ 80% of director compensation at risk based upon stock performance ✓ Annual Board performance evaluations ✓ Robust director and executive officer stock ownership guidelines ✓ Anti-hedging policy applicable to all employees and directors ✓ Stockholder right to act by written consent |
|---|--|---|

Stockholder Engagement

We value the views of our stockholders and we believe that building positive relationships with our stockholders is critical to our long-term success. Our investor communications and outreach include periodic site visits, investor conferences and quarterly conference calls. Our quarterly conference calls and presentations at investor conferences are open to the public and are available live and as archived webcasts on our website. During 2019, we engaged with a stockholder with respect to a majority voting by-law provision, which we then adopted. To help management and the Board understand and consider the issues that matter most to our stockholders, we periodically engage with our stockholders on a range of topics including performance, executive compensation, governance and sustainability matters.

Proposal

2

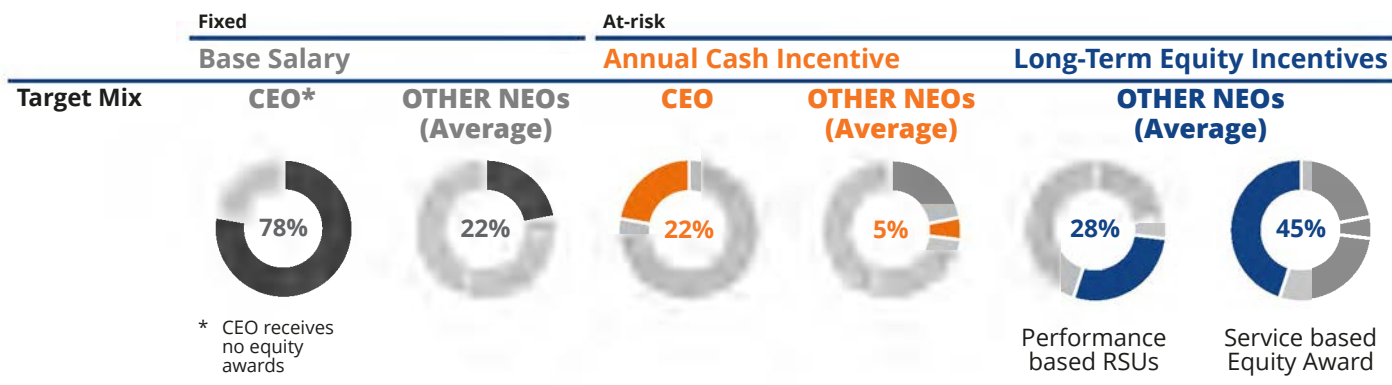
Advisory Approval of Our Executive Compensation

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

[🔗](#) See page 37

2019 Executive Compensation Highlights

As further discussed in *Compensation Discussion and Analysis* starting on page 38, the guiding principles of our executive compensation philosophy are pay-for-performance, accountability for annual and long-term performance, alignment with stockholders’ interests, and providing competitive pay to attract and retain executives. The 2019 compensation program for our named executive officers (“NEOs”) has three primary components: annual base salary, annual cash incentives and long-term equity incentives.

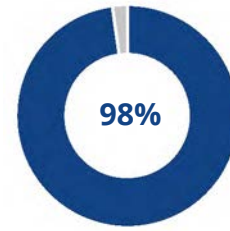


- Performance**
- Executive base salaries were not increased for 2019 in light of the challenging macro-economic environment facing the Company
 - Financial performance fell short of minimum revenue and earnings thresholds in 2019, resulting in no annual incentive payout based on financial performance
 - Individual performance awards were earned for managing through challenging business conditions
 - Type and proportion of equity grants reflected a 2019 review by our Compensation Committee with the assistance of our independent compensation consultant of grant practices at peer companies
 - Our CEO, as the founder and a significant stockholder, has not received an equity award since the Company’s 2006 IPO, resulting in lower compensation expenses and equity burn rate

- Objective**
- Provide a competitive fixed component to attract and retain talented and experienced executives
 - Variable cash compensation opportunity is based upon annual net sales and profitability against threshold, target and maximum performance goals
 - Additional compensation opportunities are based upon individual performance
 - Align interests of our executives and stockholders by motivating executive officers to increase long-term stockholder value
 - Service-based equity awards vest over four years providing long-term retention and additional compensation opportunity for stock price increases
 - PSU awards provide additional incentives and are earned based on IPG’s total stockholder return relative to a comparable stock index

Alignment with Stockholder Interests and Performance

- Annual cash incentive payouts are capped and have challenging performance goals linked to key financial performance metrics
- Long-term equity incentives are aligned with long-term stockholder value creation
- Approximately 78% of non-CEO compensation in 2019 was at risk based on performance
- Executives exceed stock ownership guidelines, aligning with interests of stockholders



Say-on-pay approval during last stockholder vote in 2017

Governance Features of Our Executive Compensation Program

PRACTICES WE EMPLOY

- ✓ Align our officer pay with performance
- ✓ Balance annual and long-term incentives
- ✓ Use long-term incentives to link executive pay to company performance
- ✓ Cap on incentive award payouts
- ✓ Maximize stockholder value while mitigating risk
- ✓ Independent compensation consultant
- ✓ Robust stock ownership requirements
- ✓ Clawbacks on executive compensation

PRACTICES WE AVOID

- ✗ No guaranteed annual bonuses
- ✗ No retirement benefits
- ✗ No tax gross-ups
- ✗ No significant perquisites
- ✗ Hedging of Company stock is prohibited
- ✗ No severance for “cause” terminations
- ✗ No single-trigger change in control provisions
- ✗ No stock option repricing without stockholder approval
- ✗ Pledging of Company stock is limited

Proposal

3

Ratify Deloitte & Touche LLP as our Independent Registered Public Accounting Firm for 2020

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

[🔗](#) See page 58

The Audit Committee has sole authority to appoint and replace the Company’s independent registered public accounting firm, which reports directly to the Audit Committee, and is directly responsible for its compensation and oversight of its work. The Audit Committee conducted its annual evaluation of Deloitte & Touche LLP and, after assessing the performance and independence of Deloitte & Touche LLP, the Audit Committee concluded that the best course of action was to reappoint Deloitte & Touche LLP as our independent external auditor for 2020.

We are asking you to ratify this appointment. If stockholders fail to ratify the appointment, the Audit Committee will consider it a directive to consider other accounting firms for the subsequent year.

Proxy Statement Summary

Fees Paid to Deloitte & Touche. The fees for services provided by Deloitte & Touche LLP, member firm of Deloitte Touche Tohmatsu, and their respective affiliates, to the Company were:

Fee Category	Fees	
	2019	2018
Audit fees	\$ 2,440,990	\$ 2,051,757
Audit-related fees	—	170,470
Tax fees	90,000	111,000
All other fees	—	—
Total Fees	\$ 2,530,990	\$ 2,333,227

In 2019 and 2018, the percentage of total fees paid to our independent registered public accounting firm for audit fees were 96% and 88%, respectively.

Proposal 4	Stockholder Proposal to Prepare a Report on Management Team Diversity The Board recommends a vote AGAINST the stockholder proposal to be presented at the meeting. 🔗 See page 61
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This Proxy Statement contains certain forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995, Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended, and we intend that such forward-looking statements be subject to the safe harbors created thereby. For this purpose, any statements contained in this Proxy Statement except for historical information are forward-looking statements. Without limiting the generality of the foregoing, words such as "may," "will," "expect," "believe," "anticipate," "intend," "could," "estimate," or "continue" or the negative or other variations thereof or comparable terminology are intended to identify forward-looking statements. The forward-looking statements included herein are based on current expectations of our management based on available information and involve a number of risks and uncertainties, all of which are difficult or impossible to accurately predict and many of which are beyond our control. As such, our actual results may differ significantly from those expressed in any forward-looking statements. Factors that may cause or contribute to such differences include, but are not limited to, those discussed in more detail in the section titled "Risk Factors" and elsewhere in our Annual Report and other filings with the SEC. We undertake no obligation to revise the forward-looking statements contained herein to reflect events or circumstances after the date hereof or to reflect the occurrence of unanticipated events.

Proposal

1

Election of Nine Directors

The Board of Directors recommends a vote **FOR** each director nominee named in this Proxy Statement.

Director Qualifications

The Nominating and Corporate Governance Committee (the "NCGC") is responsible for identifying and evaluating nominees for director and for recommending to the Board a slate of nominees for election at the Annual Meeting. The NCGC has recommended, and the Board has approved, the following nominees for terms expiring at the annual meeting to be held in 2021, until a successor is elected and qualified or until his or her earlier death, resignation or removal and, unless otherwise marked, a proxy will be voted for such nominees: Dr. Gapontsev, Dr. Scherbakov, Mr. Samartsev, Mr. Child, Mr. Dougherty, Ms. Lego, Mr. Meurice, Mr. Peeler and Mr. Seifert. All of the director nominees set forth in our proxy card have consented to being named in this Proxy Statement and to serving if elected. For more information regarding the nominees for director, see *Director Nominees* below. Mr. Henry E. Gauthier decided to retire from the Board and will not stand for re-election at the Annual Meeting. We extend our sincere appreciation to Mr. Gauthier for the valuable contributions and guidance he provided to our Company and stockholders during his service as a member of our Board since 2006. At the Annual Meeting our Board size is being reduced from ten to nine directors.

In considering each director nominee and the composition of the Board as a whole, the NCGC evaluates members based on their expertise and diverse perspectives, experiences, qualifications, attributes and skills because the NCGC believes that these attributes enable a director nominee to make significant contributions to the Board, IPG and our stockholders.

The director nominees have a mix of various skills and qualifications, some of which are listed in the table below. These collective attributes enable the Board to provide insightful leadership as it strives to advance our strategies and deliver returns to stockholders.



Lasers and Technology

6/9

We have sought directors with management and operational experience in the industries in which we compete. For example, last year we added a director with expertise in optical and electronics components, and telecommunications products. As a diversified technology, science-based company, directors with technology backgrounds understand the Company's technology platforms and the importance of investing in new technologies for future growth.



Financial Literacy

9/9

Knowledge of finance or financial reporting; experience with debt/capital market transactions and/or mergers and acquisitions strengthen the Board's oversight of financial reporting and internal controls. Financial metrics are used to measure our performance. All directors must understand finance and financial reporting processes. Two of the Audit Committee members qualify as "audit committee financial experts."



Global Business

9/9





Global business experience is critical to the Company's international operations and growth with 79% of sales from outside the U.S. in 2019. Knowledge of Asian and European business practices are valuable to understanding our business and strategy.











Manufacturing and Operating

7/9

As a vertically-integrated company, manufacturing experience and customer service on a global scale are important to understanding the operations and capital needs of the Company.

	Business Development and M&A 8/9	We have used and will continue to use acquisitions to achieve our strategic goals. Directors with experience in business development and mergers and acquisitions provide valuable perspectives regarding process, due diligence, risk assessment and integration of potential partners.
	Risk Management 9/9	In light of the Board's role in overseeing risk management and understanding the most significant risks facing the Company, including cybersecurity risk, we continue to require directors with experience in risk management and oversight.
	Executive Leadership 7/9	Significant leadership experience, including services as a CEO, senior executive, division president or functional leader within a complex organization enhances the Board's leadership role.
	Other Public Company Boards 6/9	Directors with current or recent membership on other public company boards provide valuable perspectives in many areas including operations, strategy, governance and compensation.

	Gapontsev	Scherbakov	Samartsev	Child	Dougherty	Lego	Meurice	Peeler	Seifert
Skills and Expertise									
 Lasers and Technology	●	●	●		●		●	●	
 Financial Literacy	●	●	●	●	●	●	●	●	●
 Global Business	●	●	●	●	●	●	●	●	●
 Manufacturing and Operating	●	●		●	●		●	●	●
 Business Development and M&A	●	●		●	●	●	●	●	●
 Risk Management	●	●	●	●	●	●	●	●	●
 Executive Leadership	●	●	●		●		●	●	●
 Other Public Company Boards				●	●	●	●	●	●
Background									
Years on Board	22	20	14	20	1	4	6	8	6
Age	81	72	57	65	60	63	63	65	56
Gender	M	M	M	M	M	F	M	M	M
Internationally Diverse	●	●	●				●		●

Director Nominees

The following table sets forth certain information as of the date of this Proxy Statement regarding the director nominees.

Valentin P. Gapontsev, Ph.D.

Chief Executive Officer and Chairman of the Board



AGE:
81

DIRECTOR SINCE:
1998

COMMITTEES:
None

Dr. Gapontsev has been the CEO and Chairman of the Board of IPG since our inception. Prior to founding the Company's predecessor in 1990, Dr. Gapontsev served as senior scientist in laser material physics and head of the laboratory at the Soviet Academy of Science's Institute of Radio Engineering and Electronics in Moscow. In 2006, he was awarded the Ernst & Young® Entrepreneur of the Year Award for Industrial Products and Services in New England and in 2009, he was awarded the Arthur L. Schawlow Award by the Laser Institute of America. In 2011, he received the Russian Federation National Award in Science and Technology, and he was selected as a Fellow of the Optical Society of America. Dr. Gapontsev holds a Ph.D. in Laser Materials from the Moscow Institute of Physics and Technology.

KEY ATTRIBUTES, EXPERIENCE AND SKILLS

Dr. Gapontsev is the founder of the Company and has successfully led the Company and the Board since the Company was formed to now. In the roles of CEO and Chairman of the Board, he has been responsible for formulation and execution of IPG's strategy and providing leadership and oversight of IPG's business during a period of rapid and profitable growth, as well as business contractions. He has over thirty years of academic research experience in the fields of solid state laser materials, laser spectroscopy and non-radiative energy transfer between rare earth ions and is the author of many scientific publications and several international patents. His strategic foresight and entrepreneurial spirit along with his deep scientific understanding has guided the Company's continued growth and technology leadership.

						
Lasers and Technology	Financial Literacy	Global Business	Manufacturing and Operating	Business Development and M&A	Risk Management	Executive Leadership

Eugene A. Scherbakov, Ph.D.

Chief Operating Officer, Managing Director of IPG Laser GmbH and Senior Vice President of Europe



AGE:

72

DIRECTOR SINCE:

2000

COMMITTEES:

None

Dr. Scherbakov has served as Chief Operating Officer since February 2017, Managing Director of IPG Laser GmbH, our German subsidiary, since August 2000 and Senior Vice President-Europe since 2013. He served as the Technical Director of IPG Laser from 1995 to August 2000. From 1983 to 1995, Dr. Scherbakov was a senior scientist in fiber optics and head of the optical communications laboratory at the General Physics Institute, Russian Academy of Science in Moscow. Dr. Scherbakov graduated from the Moscow Physics and Technology Institute with an M.S. in Physics. In addition, Dr. Scherbakov attended the Russian Academy of Science in Moscow, where he received a Ph.D. in Quantum Electronics from its Lebedev Physics Institute and a Dr.Sci. degree in Laser Physics from its General Physics Institute.

KEY ATTRIBUTES, EXPERIENCE AND SKILLS

Dr. Scherbakov has extensive knowledge of the Company's business as Managing Director of IPG Laser GmbH, which produces a large volume of our products and is the source of many developments in products, technology and applications. He applies his knowledge and experience across our many international branches. The leadership and operational expertise of Dr. Scherbakov have contributed to IPG increasing production, lowering manufacturing costs, managing risk and maintaining high margins compared to our industry peers. He also has extensive technological knowledge of fiber lasers, their components and manufacturing processes. His service as an executive officer of the Company provides the Board with a detailed understanding of the Company's operations, sales and customers.



Lasers and Technology



Financial Literacy



Global Business



Manufacturing and Operating



Business Development and M&A



Risk Management



Executive Leadership

Igor Samartsev Chief Technology Officer



AGE:
57

DIRECTOR SINCE:
2006

COMMITTEES:
None

Since 2011, Mr. Samartsev has served as our Chief Technology Officer. Prior to that time, he served in management and technical leadership roles at NTO IRE-Polus, our subsidiary in Russia. Mr. Samartsev holds an M.S. in Physics from the Moscow Institute of Physics and Technology.

KEY ATTRIBUTES, EXPERIENCE AND SKILLS

Mr. Samartsev is one of the founders of the Company and has a significant management role in the Company as Chief Technology Officer. As one of the key developers of the technology platform of the Company and leader in the development of many new optical technologies, components and products spanning our global development centers that form part of the Company's strategic plan, the Board values Mr. Samartsev's understanding of technology developments at our company.



Lasers and
Technology



Financial
Literacy



Global
Business



Risk
Management



Executive
Leadership

Michael C. Child Independent Director



AGE:
65

DIRECTOR SINCE:
2000

COMMITTEES:
NCGC

Since July 1982, Mr. Child has been employed by TA Associates, Inc., a private equity investment firm, where he currently serves as Senior Advisor and, prior to January 2011, he was Managing Director. Mr. Child holds a B.S. in Electrical Engineering from the University of California at Davis and an M.B.A. from the Stanford University Graduate School of Business. From September 2011 until December 2015, Mr. Child was a Lecturer at the Stanford University Graduate School of Business.

KEY ATTRIBUTES, EXPERIENCE AND SKILLS

Mr. Child is an established and experienced investor, including in technology companies, from his three decades of experience at TA Associates, Inc. Over the course of his career, he has overseen numerous investments and sales of portfolio companies, and served on the boards of many public and private companies. Through his experiences, he has gained valuable knowledge in the management, operations and finance of technology growth companies.



Financial
Literacy



Global
Business



Manufacturing
and Operating



Business
Development
and M&A



Risk
Management



Other Public
Company
Boards

Gregory P. Dougherty

Independent Director



AGE:
60

DIRECTOR SINCE:
2019

COMMITTEES:
Audit Committee,
Compensation
Committee

**DIRECTORSHIP
AT OTHER
PUBLIC
COMPANY:**

Infinera
Corporation,
Fabrinet and
MaxLinear, Inc.

Mr. Dougherty served as Chief Executive Officer of Oclaro, Inc., a maker of optical components and modules for the long-haul, metro and data center markets, from June 2013 and has served as a director of Oclaro from April 2009, until its December 2018 acquisition. Prior to Oclaro, Mr. Dougherty served as a director of Avanex Corporation (“Avanex”), a leading global provider of intelligent photonic solutions, from April 2005 to April 2009. Mr. Dougherty also served as a director of Picarro, Inc., a manufacturer of ultra-sensitive gas spectroscopy equipment using laser-based technology, from October 2002 to August 2013, and as its Interim Chief Executive Officer from January 2003 to April 2004. From February 2001 until September 2002, Mr. Dougherty was the Chief Operating Officer at JDS Uniphase Corporation (“JDS”), an optical technology company. Prior to JDS he was the Chief Operating Officer of SDL, Inc., a maker of laser diodes, from March 1997 to February 2001 when they were acquired by JDS. Mr. Dougherty serves on the boards of directors of Infinera Corporation, a provider of optical transport networking equipment, software and services to telecommunications service providers and others, since January 2019, Fabrinet, a provider of advanced optical packaging and precision optical, electro-mechanical, and electronic manufacturing services to OEMs of complex products, since February 2019, and MaxLinear, Inc., a provider of radio frequency (RF), analog and mixed-signal integrated circuits, since March 2020. Mr. Dougherty earned a B.S. in optics from the University of Rochester.

KEY ATTRIBUTES, EXPERIENCE AND SKILLS

Mr. Dougherty contributes to the Board significant leadership, operations, sales, marketing and general management experience in optics and components for telecommunications and other applications. For over three decades, Mr. Dougherty has worked in the optical and components industry and can provide the Board with insight into the industry and conditions in which the Company operates. Having been recently a CEO at a publicly-held company, he is familiar with a large range of management, corporate and board responsibilities and brings valuable perspectives to the Board as an independent director.

							
Lasers and Technology	Financial Literacy	Global Business	Manufacturing and Operating	Business Development and M&A	Risk Management	Executive Leadership	Other Public Company Boards

Catherine P. Lego

Independent Director



AGE:
63

DIRECTOR SINCE:
2016

COMMITTEES:
Audit Committee
- Audit
Committee
Financial Expert,
Compensation
Committee
(Chair)

**DIRECTORSHIP
AT OTHER
PUBLIC
COMPANY:**
Lam Research
Corporation,
Cypress
Semiconductor
Corporation
and Guidewire
Software, Inc.

Ms. Lego is a professional board member and also provides consulting services to early-stage technology companies. From 1999 to 2009, Ms. Lego served as the general partner of The Photonics Fund, LLP, a venture capital investment firm focused on early stage investing in component, module and systems companies in the fiber optic telecommunications market. She served as the director of finance and investment analyst at Oak Investment Partners from 1981 to 1984, and as a general partner from 1985 to 1992. Ms. Lego serves on the boards of directors of Lam Research Corporation, a semiconductor equipment company, Cypress Semiconductor Corporation, a maker of microcontrollers, integrated circuits and memory devices and Guidewire Software, Inc., a provider of a technology platform for the property and casualty insurance industry. Ms. Lego holds a B.A. in Economics and Biology from Williams College and an M.S. in Accounting from the New York University Stern Graduate School of Business.

KEY ATTRIBUTES, EXPERIENCE AND SKILLS

Ms. Lego has extensive experience working with advanced technology and semiconductor companies. From her current and prior service on the boards of several technology companies as well as her memberships of other audit, compensation and nominating and corporate governance committees, she is familiar with the issues faced and the processes that boards use to manage growth, risk, accounting, acquisitions, due diligence and integration, compensation and investor relations. In addition, she is a frequent speaker on board governance, ethics and audit quality at directors' colleges and events, including the E&Y Tapestry and KPMG audit committee round tables. Ms. Lego is a member of the NACD's Audit Committee Advisory Council. She brings valuable perspectives on the latest developments in audit, compensation and other matters to the Board.



Financial
Literacy



Global
Business



Business
Development
and M&A



Risk
Management



Other Public
Company
Boards

Eric Meurice Independent Director



AGE:
63

DIRECTOR SINCE:
2014

COMMITTEES:
NCGC (Chair),
Compensation
Committee

**DIRECTORSHIP
AT OTHER
PUBLIC
COMPANY:**
UMICORE S.A.
and SOITEC S.A.

Mr. Meurice was President and Chief Executive Officer of ASML Holding NV, a provider of semiconductor manufacturing equipment and technology, from October 2004 to June 2013, and Chairman until March 2014. From 2001 to 2004, he was Executive Vice President of the Thomson Television Division of Thomson, SA, an electronics manufacturer. From 1995 to 2001, he served as head of Dell Computer’s Western, Eastern Europe and EMEA emerging market businesses. Before 1995, he gained significant technology experience at ITT Semiconductors and at Intel Corporation. Mr. Meurice previously served on the boards of Verigy Ltd., a manufacturer of semiconductor test equipment, ARM Holdings plc, a semiconductor intellectual property supplier, NXP Semiconductors N.V., a semiconductor company, and Meyer Burger Technology AG, a solar equipment vendor. Mr. Meurice serves on the boards of UMICORE S.A., a recycling and materials company, since April 2015, and SOITEC S.A., a semiconductor materials manufacturer, since July 2018, and where he was appointed Chairman since March 2019. Mr. Meurice earned a Master’s degree in Mechanics and Energy Generation at the Ecole Centrale de Paris, a Master’s degree in Economics from la Sorbonne University, Paris, and an M.B.A. from the Stanford University Graduate School of Business.

KEY ATTRIBUTES, EXPERIENCE AND SKILLS

Mr. Meurice has extensive skills and experience as a manager of several rapidly-growing, complex and global businesses in the capital equipment and electronics fields with several billions of dollars in revenues, most recently as former President and Chief Executive Officer of ASML Holding NV. He has experience managing a publicly-held company as well as experience on serving on several public company boards in the equipment and technology fields. Mr. Meurice also has a record of proven leadership as a strategic thinker, operator and marketer at the businesses he managed.

							
Lasers and Technology	Financial Literacy	Global Business	Manufacturing and Operating	Business Development and M&A	Risk Management	Executive Leadership	Other Public Company Boards

John R. Peeler

Presiding Independent Director



AGE:
65

DIRECTOR SINCE:
2012

COMMITTEES:
Compensation Committee,
NCGC

DIRECTORSHIP AT OTHER PUBLIC COMPANY:
Veeco Instruments Inc.

Mr. Peeler was Chief Executive Officer of Veeco Instruments Inc. (“Veeco”) from July 2007 until September 2018, and Chairman or Executive Chairman of its board of directors from May 2012 until May 2020. Veeco is a developer and manufacturer of MOCVD, molecular beam epitaxy, ion beam and other advanced thin film processes equipment. He was Executive Vice President of JDS and President of the Communications Test & Measurement Group of JDS, which he joined upon the closing of JDS’s merger with Acterna, Inc. in August 2005. Before joining JDS, Mr. Peeler served as President and Chief Executive Officer of Acterna. He has a B.S. and M.E. in Electrical Engineering from the University of Virginia.

KEY ATTRIBUTES, EXPERIENCE AND SKILLS

Over the course of his career, Mr. Peeler has managed several high-growth technology companies. In addition, he has developed managerial leadership skills through his former position as Chief Executive Officer of Veeco, a publicly-traded company with substantial international operations. His managerial positions have provided him with in-depth knowledge of the service needs of customers in demanding markets, including semiconductor capital equipment, various manufacturing models, marketing and sales. In these roles, he has also been responsible for attracting and incentivizing executives on his team. These experiences have provided him important insights in support of his positions as Presiding Independent Director and a member of the Compensation Committee and the NCGC.



Lasers and Technology



Financial Literacy



Global Business



Manufacturing and Operating



Business Development and M&A



Risk Management



Executive Leadership



Other Public Company Boards

Thomas J. Seifert

Independent Director



AGE:
56

DIRECTOR SINCE:
2014

COMMITTEES:
Audit Committee
(Chair) - Audit
Committee
Financial
Expert, NCGC

**DIRECTORSHIP
AT OTHER
PUBLIC
COMPANY:**
CompuGroup
Medical, SE

Mr. Seifert is Chief Financial Officer of Cloudflare, Inc., an internet performance and security provider, from June 2017 to the present. Since February 2018, he is a member of the board of CompuGroup Medical SE, a publicly held company in Germany, which provides software to support medical and organization activities in medical offices and facilities. Mr. Seifert was the Executive Vice President and Chief Financial Officer of Symantec Corporation, a provider of security, backup and availability solutions, from March 2014 to December 2016. Mr. Seifert served as Executive Vice President and Chief Financial Officer of Brightstar Corporation, a wireless distribution and services company, from December 2012 to March 2014. He was Senior Vice President and Chief Financial Officer at Advanced Micro Devices Inc., a semiconductor company, from October 2009 to August 2012, and served as Interim Chief Executive Officer from January 2011 to September 2012. From October 2008 to August 2009, Mr. Seifert served as Chief Operating Officer and Chief Financial Officer of Qimonda AG, a German memory chip manufacturer, and as Chief Operating Officer from June 2004 to October 2008. He also held executive positions at Infineon AG, White Oak Semiconductor, including the position as Chief Executive Officer, and Altis Semiconductor. Mr. Seifert has a Bachelor's degree and a Master's degree in Business Administration from Friedrich Alexander University and a Master's degree in Mathematics and Economics from Wayne State University.

KEY ATTRIBUTES, EXPERIENCE AND SKILLS

Mr. Seifert has extensive experience as both an operating executive and chief financial officer of large publicly-held international technology businesses, such as Symantec and Advanced Micro Devices. In these and other senior positions, he developed deep financial and accounting knowledge, as well as managerial leadership skills, in larger organizations. With his background in accounting, finance and management, Mr. Seifert brings broad skills and knowledge to the Board, the Audit Committee, and the NCGC including internal controls, mergers and acquisitions, integrations and information technology security.



Financial
Literacy



Global
Business



Manufacturing
and Operating



Business
Development
and M&A



Risk
Management



Executive
Leadership



Other Public
Company
Boards

The Board of Directors recommends that you vote **FOR** each director nominee named in this Proxy Statement.

Board Refreshment and Composition

Board Succession Planning

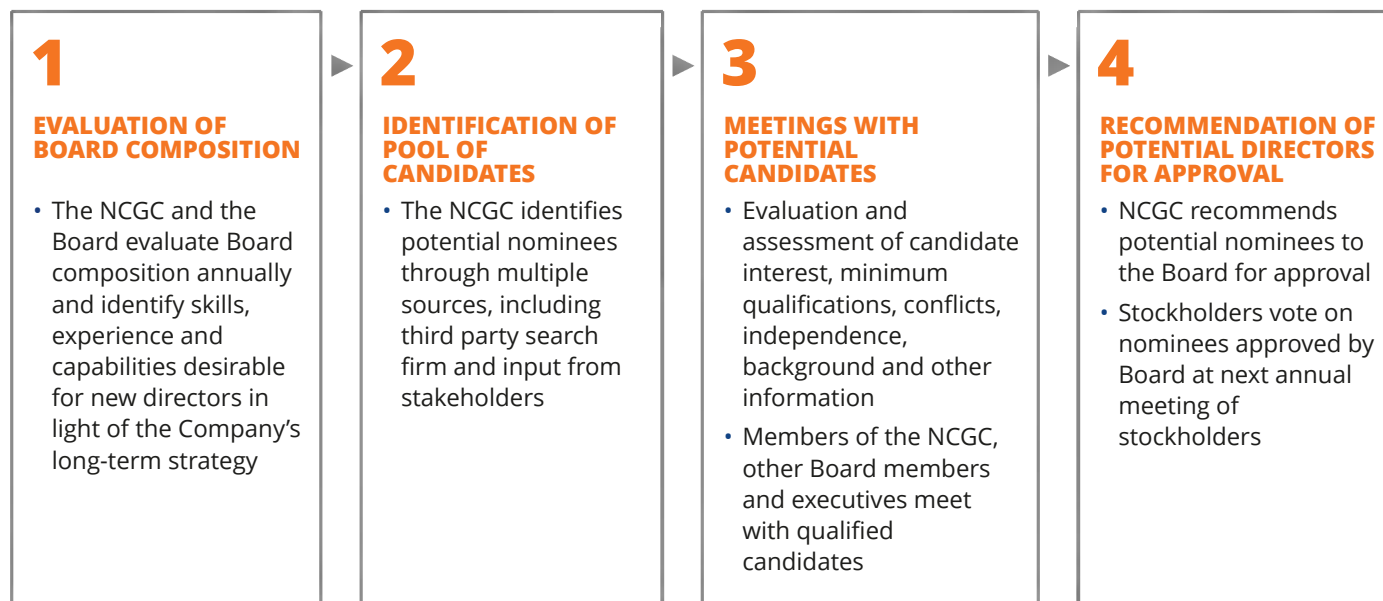
Our Board's succession planning focuses primarily on the composition of our Board and its committees, anticipated retirements, succession plans for committee members and chairs, our commitment to Board diversity, and recruiting strategies for adding new directors. In its succession planning, the NCGC and our Board consider the results of our Board's annual self-assessment, as well as other appropriate information, including the types of skills and experience desirable for future Board members and the needs of our Board and its committees at the time in light of the Company's long-term strategy.

- **Thoughtful, Deliberate Board Refreshment Process.** The Board's refreshment actions reflect a thoughtful and deliberate process that was informed by our Company's strategic needs as well as the Board's annual self-assessment and director nomination processes.
- **Appropriately Balance Experience and Perspectives While Ensuring an Orderly Transition.** Our Board has taken care as part of its Board refreshment process to appropriately balance new perspectives and the experience of existing directors while undergoing an orderly transition of roles and responsibilities on the Board and its committees.
- **Importance of Board Diversity.** In addition, our Board continues to focus on the importance of Board diversity. One of the two new directors who joined our Board since 2016 is female. Gender diverse candidates have been and are included in our board searches.

DIRECTOR TENURE AND RETIREMENT AGE POLICIES

- No Term Limits; Appropriate Balance of Skills, Knowledge, Experience and Perspectives.
- Our Board recognizes the importance of periodic Board refreshment and maintaining an appropriate balance of tenure, experience and perspectives on the Board.
- We believe it is desirable to maintain a mix of longer-tenured, experienced directors with institutional memory and understanding of our business and culture and newer directors with fresh perspectives. However, we do not impose director tenure limits.
- The Board believes that directors should not have an expectation of being renominated annually and that the NCGC's assessment is a key component of its director nomination process.
- In connection with the Board's annual self-assessment and director nomination processes, the Board considers upcoming retirements, the average tenure and overall mix of individual director tenures of the Board, the overall mix of the skills, knowledge, experience and diversity, each individual director's performance and contributions to the work of the Board and its committees, the personal circumstances and other time commitments of directors, along with other factors the Board deems appropriate.
- The Board believes that, as an alternative to term limits, non-management directors should submit their resignation from the Board upon attaining the age of 72 and on each subsequent anniversary. The Board then considers the needs and circumstances confronting the Board and, upon recommendation of the NCGC, determines whether to accept or decline the resignation.
- Our Board's age resignation policy is intended to facilitate our Board's recruitment of new directors with appropriate skills, experience and backgrounds and provide for an orderly transition of leadership on our Board.

Board Nomination Process



The NCGC's evaluation process and criteria does not vary based upon whether a candidate is recommended by a stockholder. However, the procedural requirements set forth in our bylaws and the procedures described below in *Additional Information - 2021 Annual Meeting and Nominations* must be met.

The composite skills of the Board members and the ability and willingness of individual Board members to complement each other and to rely on each other's knowledge and expertise should produce informed Board members who are not afraid to disagree and who can intelligently assess management's performance and evaluate our strategic direction. In considering whether to recommend any candidate for nomination to the Board, including candidates recommended by stockholders, the NCGC must be satisfied that the recommended nominee meets the following qualifications at a minimum:

Character and Integrity	Must be an individual of the highest character and integrity
Leadership Experience	Demonstrated excellence, leadership and significant experience in their field of endeavor
Financial Literacy and Commitment to Representing Stockholders	Ability to read and understand financial statement fundamentals and commitment to representing the long-term interests of the Company's stockholders, while keeping in perspective the interests of the Company's customers, employees and the public
Independence and Constructive Collegiality	Must have a demonstrated ability to think and act independently as well as the ability to work constructively in a collegial environment. Must satisfy independence criteria of the SEC and NASDAQ, where independence is desired
Age	A potential director (excluding any incumbent) cannot be aged less than 21 or greater than 72 years
Limit on Other Public Boards	Independent directors – 3 (or 4 with Board approval) CEO - 1

The NCGC also considers experience in our industry or markets, international business and cultural experience, experience serving on the boards of public companies, experience acquiring companies and diversity to be favorable characteristics in evaluating recommended nominees. With over two-thirds of our sales and employees in locations outside of the U.S.A., it is important to have the appropriate experience and background coming from being born and operating in other countries. Diversity is meant to be interpreted broadly. It includes gender, age, race, national origin, geographic background and also includes differences of professional experience, global experience, education, and other individual qualities and attributes. The NCGC does not assign specific weights to particular criteria, and no particular criterion is necessarily applicable to all prospective nominees. The NCGC believes that our Board should be composed of directors who, as a group, have the experience and skills that are collectively required to make informed Board decisions, provide effective Board oversight to allow the Board to fulfill its responsibilities.

Board Roles and Responsibilities

Role in Risk Management

BOARD OVERSIGHT OF RISK

The Board recognizes that effectively monitoring and managing risk are essential to the successful execution of the Company's strategy. The Board has oversight for risk management at IPG with a focus on the most significant risks facing the Company, including strategic, operational, financial and compliance risks.

Upon recommendation of the NCGC, the Board allocates risk oversight responsibility among the full Board, the independent directors acting as a group and the three standing committees of the Board as described below. Throughout the year, the Board, the independent directors and the committees to which the Board has delegated responsibility dedicate a portion of their meetings to review and discuss specific risk topics in greater detail.

AUDIT COMMITTEE

The Audit Committee oversees the policies, processes and risk relating to the financial statements, financial reporting processes, auditing, cybersecurity and compliance risks. The Audit Committee discusses with management the Company's risk assessment and risk management practices and, when reviewing and approving the annual audit plan for the Company's internal audit function, prioritizes audit focus areas based on their potential risk.

COMPENSATION COMMITTEE

The Compensation Committee oversees risk associated with management resources, including executive retention and non-CEO succession planning. It reviews the Company's executive compensation practices, their effectiveness at linking executive pay to performance and aligning the interests of our executives and our stockholders, without encouraging excessive risk taking. The Compensation Committee annually reviews management's assessment of compensation risk.

THE NOMINATING AND CORPORATE GOVERNANCE COMMITTEE

The NCGC oversees risk related to the Company's governance structure and processes, and risks arising from related person transactions. It reviews processes and risk related to Board succession planning, authority delegated to management and certain compliance risk.

FULL BOARD

Our entire Board as a whole reviews risk management practices and a number of significant risks in the course of its reviews of corporate strategy, management reports and others.

INDEPENDENT DIRECTORS

As a group, the independent directors oversee risks related to CEO succession planning.

The Board's risk oversight process builds upon management's risk assessment and mitigation processes, which include reviews of strategic and operational planning; compliance under the Company's Code of Business Conduct and other policies; the Company's integrity programs; health, safety and environmental compliance; financial reporting and controllership; and information technology and cybersecurity programs. The Board's oversight role is independent from the Company's day-to-day management, as more than two-thirds of the current directors are independent and therefore have no conflicts that might discourage critical review of the Company's risks.

Role in Management Succession Planning

The Board is focused on ensuring that the Company has emergency and long-term succession plans in place for key senior executive positions. The entire Board annually reviews with the CEO the Company’s plan for succession for the position of the chief executive officer, including the appropriate individual or individuals who are candidates to succeed to this position. In the event of an unexpected departure of the CEO, an emergency succession plan allows for smooth transfer of responsibilities to an individual who may or may not be permanently tasked with the new role. The Compensation Committee, composed entirely of independent directors, periodically reviews the Company’s plan for succession for other senior executive officers.

If the succession plan is triggered for any of these roles, the full Board would participate in the discussion and consideration of any action with a final decision to be made by the full Board. In the event of a senior executive’s departure, both internal and external candidates may be considered for permanent appointment to a given role.

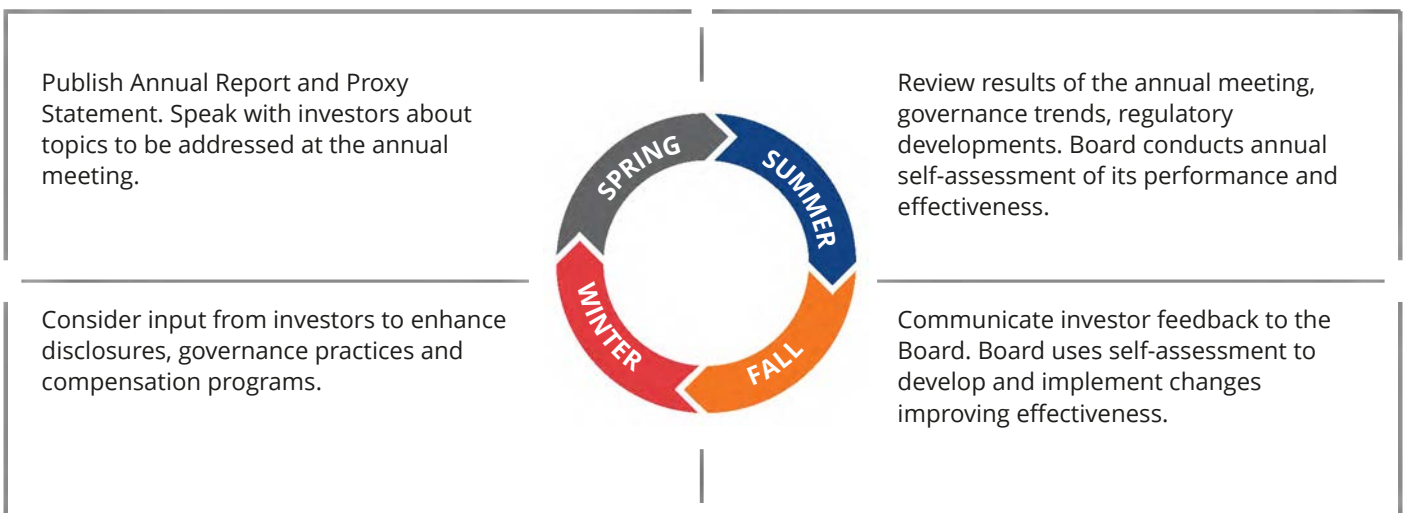
Role in Ethics

All directors, officers and employees are required to abide by IPG’s Code of Business Conduct to ensure that our business is conducted in a consistently legal and ethical manner. These policies form the foundation of a comprehensive process that includes compliance with corporate policies and procedures and a Company-wide focus on uncompromising integrity in every aspect of our operations. Our Code of Business Conduct covers many topics, including antitrust and competition law, conflicts of interest, financial reporting, protection of confidential information, and compliance with all laws and regulations applicable to the conduct of our business. All of our directors and employees receive bi-annual training on our Code of Business Conduct, which is posted on our website at investor.ipgphotonics.com/governance/governance-documents. If the Board grants any waivers from our Code of Business Conduct to any directors or executive officers, or if we amend our Code of Business Conduct, we will, if required, disclose these matters via updates on our website.

Role in Stockholder Engagement

Accountability to our stockholders is an important component of the Company’s success. We recognize the value of building informed relationships with our investors that promote further transparency and accountability.

While proxy voting is one direct way to influence corporate behavior, proactive engagement with our investors can be effective and impactful. Investor views are continuously communicated to the Board and are instrumental in the development of our governance, compensation and other policies and inform our business strategy. The Board continues to seek investor input on a range of issues and practices in furtherance of enhancing long-term stockholder value.



Board Structure

Board Leadership Structure

- **Chairman of the Board and Chief Executive Officer: Dr. Valentin P. Gapontsev**
- **Presiding Independent Director: John R. Peeler**
 - Presiding Independent Director position is appointed annually by independent directors
- **All three Board committees composed of independent directors**
- **Independent directors meet in executive session at each of the Board's in person meetings and as needed outside of regular meetings**

There is no single board leadership structure that is optimal in all circumstances. The Board, with its diverse skills and experience, considers the most appropriate leadership structure for the Company in the context of the specific circumstances and challenges facing IPG. The directors come from a variety of organizational backgrounds with direct experiences a wide range of leadership and management structures. The independent directors, who comprise two-thirds of our Board, appropriately challenge management and demonstrate the independence necessary for effective oversight. As a result, the Board is in the best position to evaluate the relative benefits and challenges of different leadership structures and ultimately decide which one best serves the interests of our stockholders.

The independent directors believe that having Dr. Gapontsev serve in the combined role of Chairman and CEO is in the best interest of the Company and its stockholders because it allows Dr. Gapontsev to more effectively execute the Company's strategic initiatives and business plans. He is the Company's founder and beneficially owns approximately 14% of the Company's common stock. The duality of Dr. Gapontsev's roles creates clear and unambiguous authority, which is essential to effective management. Further, given that he is closer to the Company's business than any other Board member and has the benefit of thirty years of operations, technology, strategy and executive management experience within the Company and its subsidiaries, the Board believes that Dr. Gapontsev is best-positioned to set the Board's agenda and provide leadership of the board of a company operating in a highly technical industry.

The Board also recognizes the importance of having in place, and building upon, a counterbalancing structure to ensure that it functions in an appropriately independent manner. The governance structure approved by the Board endows the position of Presiding Independent Director with leadership duties and responsibilities including:

- setting the agenda for and leading executive sessions of the independent directors;
- providing consolidated feedback from those meetings to the Chairman and CEO;
- providing input on Board meeting agendas;
- providing feedback on the quality and quantity of information flow from management;
- calling and managing meetings of the independent directors;
- facilitating discussions outside of scheduled Board meetings among the independent directors on key issues;
- serving as a liaison with the Chairman and CEO;
- interviewing Board candidates; and
- leading the independent directors in setting the Chairman's and CEO's compensation, goals and objectives, and his annual performance evaluation.

In the event of a crisis, the Presiding Independent Director has an increased role in crisis management oversight. The independent directors of our Board elected Mr. Peeler as the Presiding Independent Director for the term ending May 2020, and this position is voted upon annually by our independent directors.

The Board believes that the position and responsibilities of the Presiding Independent Director and the regular use of executive sessions of the independent directors without the CEO or other executive officers present, along with the Company's strong committee system and substantial majority of independent directors, allow the Board to maintain effective oversight.

Director Independence

Seven of our ten current directors are independent as defined by Nasdaq and SEC rules. A predominantly independent Board ensures that the Board is acting objectively and in the best interests of our stockholders. The independent directors also bring expertise and a diversity of perspectives to the Board. The culture of the Board enables directors to openly express their opinions in the boardroom and to raise challenges. Nasdaq listing standards governing independence require that a majority of the members of the Board be independent as defined by Nasdaq. The Board conducted its annual review of director independence in March 2020. During this review, the Board examined all direct and indirect transactions or relationships between the Company or any of its subsidiaries and each current director and any immediate family member of the director and determined that no material relationships with the Company existed during 2019. On the basis of this review, the Board determined that each of the following directors qualifies as an independent director as defined in Nasdaq guidelines and SEC rules: Michael C. Child, Gregory P. Dougherty, Henry E. Gauthier, Catherine P. Lego, Eric Meurice, John R. Peeler and Thomas J. Seifert. Additionally, the Board has determined that each member of the Audit Committee and the Compensation Committee meets the independence standards specific for members of such committees under Nasdaq guidelines and SEC rules.

Our Corporate Governance Guidelines require that a majority of the Board members must consist of independent directors. In general, our Corporate Governance Guidelines also require that an independent director must have no material relationship with the Company, directly or indirectly, that might interfere with the exercise of independent judgment in the performance of director responsibilities. The Board determines independence on the basis of the standards specified by Nasdaq, the additional standards referenced in our Corporate Governance Guidelines, and other facts and circumstances the Board considers relevant. The NCGC conducts an annual review of the independence of the directors (and candidates for membership on the Board), taking into account all relevant facts and circumstances, and reports its findings to the full Board.

Executive Sessions. Our independent directors meet privately, without employee directors or management present, at least four times during the year. These private sessions are generally held in conjunction with the regular quarterly Board meetings. Other private meetings of the independent directors are held as often as deemed necessary by them and are lead by the Presiding Independent Director. The Audit Committee, the Compensation Committee and the NCGC meet without employee directors or management present from time to time as they deem necessary.

COMPENSATION COMMITTEE INTERLOCKS AND INSIDER PARTICIPATION

No member of our Compensation Committee (Ms. Lego and Messrs. Dougherty, Meurice and Peeler) is or has been an officer or employee of our Company or any of our subsidiaries. None of our executive officers served as a member of:

- the compensation committee of another entity in which one of the executive officers of such entity served on our Compensation Committee;
- the compensation committee of another entity in which one of the executive officers of such entity served as a member of our Board; or
- the board of directors of another entity, one of whose executive officers served on our Compensation Committee.

Standing Committees and Board Committee Membership

The Board has a standing Audit Committee, Compensation Committee and NCGC, each composed entirely of non-employee, independent directors. Under their written charters adopted by the Board, each of these committees is authorized and assured appropriate funding to retain and consult with external advisors, consultants and counsel. Below we provide the principal functions and current members of the standing Board committees.

Audit Committee

MEMBERS

Thomas J. Seifert (Chair)
Gregory P. Dougherty
Henry E. Gauthier
Catherine P. Lego

Meetings in 2019: 8

FUNCTIONS:

- Providing oversight of financial management, the internal auditor function and the independent auditor.
- Providing oversight with respect to our internal controls including that management is maintaining an adequate system of internal control such that there is reasonable assurance that assets are safeguarded and that financial reports are properly prepared; that there is consistent application of generally accepted accounting principles; and that there is compliance with management's financial reporting policies and procedures.
- Pre-approving auditing and permissible non-audit services by our independent auditor, reviewing and discussing out annual and quarterly financial statements and related disclosures, and coordinating.
- Meeting periodically with the independent auditor, management and internal auditor function (including in private sessions) to review their work and confirm that they are properly discharging their respective responsibilities.
- Appointing the independent auditor.

For more information on Audit Committee activities in 2019, see the Audit Committee Report on page 60 of this Proxy Statement and *Proposal 3: Ratify Deloitte & Touche LLP as Independent Registered Public Accounting Firm for 2020* on page 58.

The Board has determined that each member of the Audit Committee is independent and financially literate. The Board has designated Ms. Lego and Mr. Seifert, who are each independent directors under the Nasdaq listing standings and the SEC's audit committee requirements, as "audit committee financial experts" pursuant to the SEC's final rules implementing Section 407 of the Sarbanes-Oxley Act. Stockholders should understand that the designation of Ms. Lego and Mr. Seifert each as an "audit committee financial expert" is an SEC disclosure requirement and that it does not impose upon them any duties, obligations or liabilities that are greater than those imposed on them as members of the Audit Committee and the Board in the absence of such designation.

Compensation Committee

MEMBERS

Catherine P. Lego (Chair)
 Gregory P. Dougherty
 Eric Meurice
 John R. Peeler

Meetings in 2019: 8

FUNCTIONS:

- Reviewing and recommending to the independent directors the CEO’s base salary and opportunities for annual and long-term compensation.
- Reviewing and approving compensation decisions recommended by the CEO for the other executive officers, including setting base salaries, annual performance bonuses, long-term incentive awards, severance benefits and perquisites.
- Setting our compensation philosophy and composition of the group of peer companies used for comparison of executive compensation.
- Reviewing and recommending for approval by the Board the compensation for non-employee directors.
- Administering the equity compensation plans under which we compensate our executive officers and other key employees.
- Retaining an independent compensation consultant firm, Radford, a unit of Aon Hewitt (“Radford”), for matters related to executive officer and director compensation, and outside legal counsel to provide advice on compensation-related matters.
- Preparing the Compensation Committee Report included in this Proxy Statement on page 37 and overseeing management’s risk assessment of compensation for all employees and compensation-related risks as delegated by the Board.

Nominating and Corporate Governance Committee

MEMBERS

Eric Meurice (Chair)
 Michael C. Child
 John R. Peeler
 Thomas J. Seifert

Meetings in 2019: 5

FUNCTIONS:

- Overseeing matters of corporate governance, including the evaluation of the performance and practices of the Board.
- Developing and recommending criteria for Board membership.
- Reviewing possible candidates for the Board and recommending director nominees to the Board for approval.
- Overseeing the process for the performance evaluations of the Board and its committees.
- Engaging in Board succession planning to ensure boardroom skills are aligned with IPG’s long-term strategic plan.
- Reviewing and recommending director orientation, stock ownership guidelines, delegation of authority to management, insider trading guidelines, and consider questions of possible conflict of interest, including related party transactions, as such questions arise.
- Reviewing and recommending risk oversight responsibilities of the Board and its committees and of the independent directors as a group.

Each of the Board committees has a written charter that states their respective purposes, goals and responsibilities as well as qualifications for committee membership, appointment and removal, committee structure and operations and reporting to the entire Board. The three committee charters and our Corporate Governance Guidelines can be found at investor.ipgphotonics.com/governance/governance-documents. Information on our website does not constitute part of this Proxy Statement.

Board Practices, Policies and Processes

IPG's Ongoing Commitment to Enhancing Governance Practices

2020	<ul style="list-style-type: none"> Increased stock ownership requirements for executives and directors Adopted new LTI program structure increasing the percentage of performance-based compensation Redesigned proxy statement to include more detailed, transparent and easy-to-read disclosure regarding governance practices and compensation
2019	<ul style="list-style-type: none"> Adopted proxy access bylaw amendment creating process for long-term stockholders to nominate alternative board candidates on the Company's proxy card
2018	<ul style="list-style-type: none"> Adopted majority voting provision to our bylaws with director resignation policy for any director failing to receive a majority vote in uncontested elections Obtained stockholder approval for limits on independent director compensation.
2017	<ul style="list-style-type: none"> Revised Code of Conduct to strengthen anti-corruption provisions
2016 and before	<ul style="list-style-type: none"> Adopted clawback policy for incentive compensation of executive officers Increased the stock ownership requirement of our CEO Adopted robust director and executive officer stock ownership guidelines to strengthen alignment of interests with stockholders Adopted robust compensation clawback policy

Director Meetings and Policy Regarding Board Attendance

It has been the practice of our Board and its committees to hold at least four in-person regular meetings each year. The Board and its committees also have telephone meetings throughout the year. Our directors are expected to spend the time needed to prepare for and participate in each meeting and to meet as frequently as necessary to properly discharge their responsibilities. We encourage members of our Board to attend annual meetings of stockholders, but we do not have a formal policy requiring them to do so. In 2019, six of the directors in office attended the annual meeting of stockholders.

The table below sets forth the number of meetings held by each committee and the full Board in 2019. All incumbent directors attended 75% or more of the aggregate meetings of the Board and committees on which they served during 2019.

	Board of Directors	Audit	Compensation	Nominating and Corporate Governance
Meetings held in 2019	6	8	8	5
Written consents in 2019	4	0	2	0

Corporate Governance Guidelines

Our Board adopted Corporate Governance Guidelines that outline, among other matters, the roles and functions of the Board, the responsibilities of various Board committees and the mission of the Board. Our Corporate Governance Guidelines can be found at investor.ipgphotonics.com/governance/governance-documents. Information on our website does not constitute part of this Proxy Statement.

The Corporate Governance Guidelines provide, among other things, that:

- a majority of our Board must be independent
- the Presiding Independent Director presides over executive sessions of independent directors
- the Board appoints all members and chairpersons of the Board committees
- the Audit Committee, Compensation Committee, and NCGC consist solely of independent directors
- the independent directors meet periodically in executive sessions without the employee directors or management
- independent directors may not serve on the boards of more than three other public companies or, with the permission of the Board, four; the CEO may not serve on more than one other public company board
- Board self-assessments are conducted annually and
- the Board and key officers should have a meaningful financial stake in the Company.

The Board monitors changing legal and regulatory requirements, evolving best practices and other developments. The Board modifies the Corporate Governance Guidelines and its other corporate governance policies and practices from time to time, as appropriate.

Director Orientation and Continuing Education

The Board and its committees proactively monitor legislative and regulatory initiatives, as well as other corporate governance trends and their potential impact on the Company. The Board receives presentations from professionals with expertise in corporate law, governance and other related topics. These experts have specialized knowledge of regulatory actions, governance trends and various other corporate governance topics. In 2019, the Board and its committees received presentations on board oversight and stockholder engagement, SEC rulemaking, governance trends, critical accounting matter disclosures and cybersecurity. Additionally, our directors engage in continuing education to remain informed on recent trends applicable to their committee duties.

Likewise, newly elected directors attend a comprehensive director orientation program that covers, among other things, our strategy, business structure, financial performance, and competitive landscape. New committee members are also provided training on committee policies, practices and trends. As part of this program, directors are asked to tour facilities as appropriate. To further familiarize directors with our expanding operations, we conduct Board meetings at our major manufacturing facilities from time to time.

Board Performance Evaluations

The Board conducts annual self-assessments and its committees conduct bi-annual self-assessments to determine whether they are functioning effectively. Further, the performance of the Presiding Independent Director is evaluated annually. The NCGC oversees the Board and committee self-assessments. Each committee also reviews its own performance bi-annually and reports the results to the Board. Each committee reviews and reassesses the adequacy of its charter annually and recommends proposed changes to the Board.

Prohibition on Hedging; Limits on Pledging

Under our insider trading policy, no director or employee, including NEOs, may engage in shorting shares of our common stock; buying or selling puts, calls or derivatives related to our common stock or other Company securities, which includes equity compensation; or engaging in hedging transactions, including through the use of financial instruments such as prepaid variable forwards, equity swaps, collars and exchange funds. No director or officer, including NEOs, may pledge shares constituting more than 20% of his or her total stock ownership. Pledges of shares constituting 20% or less of total stock ownership are subject to certain conditions.

Communication with our Board of Directors

Interested parties wishing to write to the Board, a specified director or a committee of the Board should send correspondence to the Office of the Secretary, IPG Photonics Corporation, 50 Old Webster Road, Oxford, Massachusetts 01540. All written communications received in such manner from stockholders of the Company will be forwarded to the members or committee of the Board to whom the communication is directed or, if the communication is not directed to any particular member(s) or committee(s) of the Board, the communication shall be forwarded to all members of the Board.

Procedures for Submitting Complaints

We have procedures to treat complaints regarding accounting, internal accounting controls, auditing matters, fight against bribery, banking, and financial crime, including submission of confidential and anonymous concerns regarding questionable accounting, internal accounting controls or auditing matters raised by our directors, officers and employees. These procedures are posted on our website at investor.ipgphotonics.com/governance/governance-documents.

Transactions with Related Parties

The Board adopted a related person transaction policy that requires the NCGC to approve or ratify any transaction or series of transactions exceeding \$100,000 in which our Company is a participant and any related person has a direct or indirect material interest (other than solely as a result of being a director or trustee or less than 10% owner of another entity) ("Related Party Transactions"). Related persons include our directors, director nominees and officers and their immediate family members and persons sharing their households. It also includes persons controlling more than 5% of our outstanding common stock. Subject to certain exceptions in the policy, related parties are required to notify the NCGC of the Related Party Transaction for an assessment of whether the transaction or proposed transaction should be permitted. Management also has established procedures for monitoring transactions that could be subject to approval or ratification under the Related Party Transactions policy.

In deciding whether to approve or ratify the Related Party Transaction, the NCGC considers relevant facts and circumstances. The committee will take into account, among other factors, whether the transaction is on terms no more favorable than terms generally available to an unaffiliated third party under the same or similar circumstances and the extent of the related person's interest in the transaction. Once a Related Party Transaction has been identified, the NCGC will review all of the relevant facts and circumstances and approve or disapprove entry into the transaction. Members of the NCGC having an interest in a transaction excuse themselves for the consideration and approval of the transaction in which they have an interest. Certain transactions are exempt from the policy including compensation paid by the Company for service as a director or an officer.

Pursuant to our Corporate Governance Guidelines, we expect each of our directors to ensure that other existing and future commitments do not conflict with or materially interfere with his or her service as a director. In addition, directors are required to inform the chairman of our NCGC prior to joining the Board of another public company to ensure that any potential conflicts, excessive time demands or other issues are carefully considered.

The NCGC reviewed and approved the following Related Party Transaction for 2019 in compliance with our policy:

Dr. Gapontsev leases the annual right to use 25% of the Company's corporate aircraft under a July 2017 lease agreement (the "Aircraft Lease") in connection with the purchase of an aircraft. The Aircraft Lease expires in July 2022. The annual lease rate under the Aircraft Lease is \$924,700 and future rent payments are adjusted annually. Dr. Gapontsev paid the Company \$923,712 in 2019 for use of the aircraft, and in addition, directly paid an unrelated flight management firm for the operating costs of his private use, including pilot fees, fuel and other costs.

Director Compensation

Our non-employee directors receive the following annual compensation from us:

	Amount
Board Retainer	\$ 40,000
Presiding Independent Director Retainer	\$ 20,000
Audit Committee Retainers	
Chair	\$ 25,000
Non-Chair	\$ 12,500
Compensation Committee Retainers	
Chair	\$ 22,500
Non-Chair	\$ 10,000
Nominating and Corporate Governance Committee Retainers	
Chair	\$ 17,500
Non-Chair	\$ 7,500
Annual Equity Award	\$ 250,000

Following our annual meeting of stockholders in 2019, we granted to non-employee directors their annual equity award: one-third of the award value (determined pursuant to ASC Topic 718) was granted as service-based stock options and two-thirds of the award value was granted as service-based restricted stock units ("RSUs"). The annual awards vest in a single installment on the earlier of the first anniversary of the date of grant or the next annual meeting of stockholders.

Upon election to the Board, each new non-employee director receives a grant (determined pursuant to ASC Topic 718) of \$125,000 in stock options and \$125,000 in RSUs vesting on the first anniversary of the date of grant subject to the director's continued service on the Board. If the election to the Board for a new director occurs other than at an annual meeting of stockholders, the subsequent annual equity grant is pro-rated based upon time the director served since first election.

The exercise price of the stock options is the closing market price of our common stock on the date of grant. Any director who retires after at least eight years of service on the Board will be entitled to full vesting of all options and RSUs then held by the director.

2020 Update. Based upon changes to Company-wide equity compensation practices approved for 2020 and based upon recommendations and data provided by the Compensation Committee's independent compensation consultant, Radford, the Board approved changes to the mix of equity-based compensation paid to non-employee directors. Effective after the 2020 Annual Meeting, non-employee directors will receive their entire annual equity award in RSUs. The aggregate amount of equity compensation and vesting conditions remain the same.

Director Compensation Table

The following table summarizes the compensation of each of our non-employee directors for 2019:

Name	Fees Earned or Paid in Cash (\$)	Stock Awards (\$) ⁽¹⁾	Option Awards (\$) ⁽¹⁾	Total (\$)
Michael C. Child	47,500	166,197	79,996	293,693
Gregory P. Dougherty	64,180	207,710	160,154	432,044
Henry E. Gauthier	52,500	166,197	79,996	298,693
Catherine P. Lego	75,000	166,197	79,996	321,193
Eric Meurice	67,500	166,197	79,996	313,693
John R. Peeler	77,500	166,197	79,996	323,693
Thomas J. Seifert	72,500	166,197	79,996	318,693

⁽¹⁾ Valuation based on the fair value of the RSU and stock option awards as of the grant date determined pursuant to ASC Topic 718 with respect to 2019. The assumptions that we used with respect to the valuation of restricted stock unit and stock option awards are set forth in Note 12 to our Consolidated Financial Statements in our Annual Report on Form 10-K filed with the SEC on February 24, 2020. On January 23, 2019, Mr. Dougherty was elected to the Board and was granted 807 RSUs and options to purchase 2,325 shares of common stock at an exercise price of \$154.88 per share, vesting on February 15, 2020. On May 30, 2019, each continuing director serving on the Board was granted 1,297 RSUs and options to purchase 1,869 shares of common stock at an exercise price of \$128.46 per share, except for Mr. Dougherty, who received an award of 648 RSUs and options to purchase 934 shares of common stock, in each case reflecting proration based on the length of his Board service in 2019. The RSUs and options granted on May 30, 2020 vest in a single installment on May 28, 2020.

Outstanding Equity Awards Table

The following table provides information regarding unexercised stock options and unvested RSUs held by each of our non-employee directors on December 31, 2019:

Name	Unvested Restricted Stock Units (#)	Total Option Awards Held (#)	Exercisable Option Awards (#)
Michael C. Child	1,297	43,579	41,710
Gregory P. Dougherty	1,455	3,259	—
Henry E. Gauthier	1,297	10,578	8,709
Catherine P. Lego	2,050	13,829	9,833
Eric Meurice	1,297	20,001	18,132
John R. Peeler	1,297	23,578	21,709
Thomas J. Seifert	1,297	7,677	5,808

We also reimburse directors for all reasonable out-of-pocket expenses incurred for attending Board and committee meetings and director education programs. We do not pay our non-employee directors any additional payments or perquisites.

Our certificate of incorporation limits the dollar amount of personal liability of our directors for breaches by them of their fiduciary duties. Our certificate of incorporation requires us to indemnify our directors to the fullest extent permitted by the Delaware General Corporation Law. We have also entered into indemnification agreements with all of our directors and we have purchased directors' and officers' liability insurance.

Objectives of Director Compensation

Quality non-employee directors are critical to our success. We believe that the two primary duties of non-employee directors are to effectively represent the long-term interests of our stockholders and to provide guidance to management. As such, our compensation program for non-employee directors is designed to meet several key objectives:

- Adequately compensate directors for their responsibilities and time commitments and for the personal liabilities and risks that they face as directors of a public company;
- Attract the highest caliber non-employee directors by offering a compensation program consistent with those at companies of similar size, complexity and business character;
- Align the interests of directors with our stockholders by providing a significant portion of compensation in equity and requiring directors to own our stock; and
- Provide compensation that is simple and transparent to stockholders and reflects corporate governance best practices.

We also believe in aligning director compensation with stockholder interests. In 2019, approximately 80% of independent director compensation was at-risk by being subject to stock price performance.

Elements of Director Compensation

We believe that the following components of our director compensation program support the objectives above:

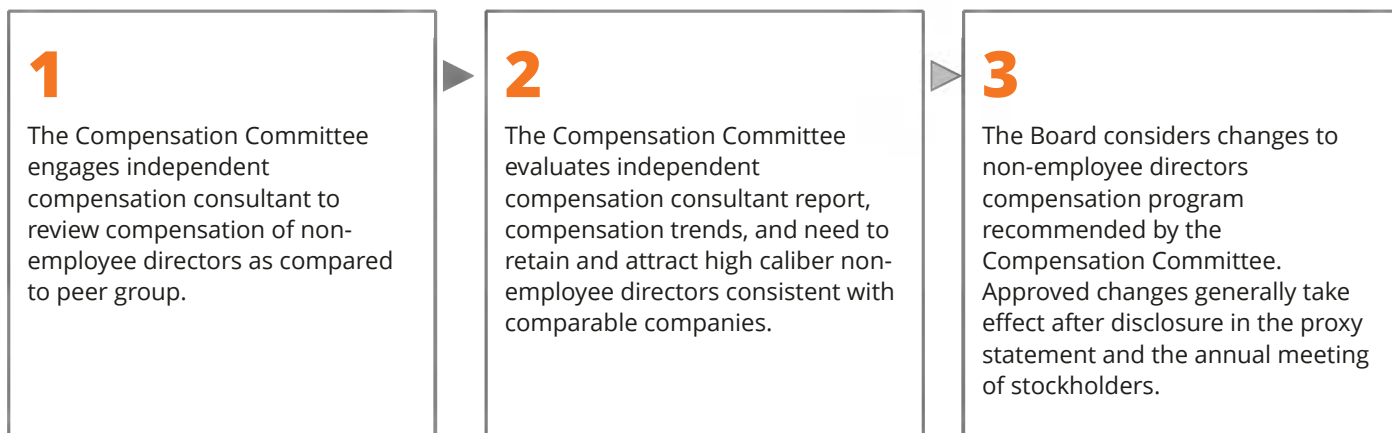
- We provide cash compensation through retainers for Board and committee service, as well as additional cash retainers to the Presiding Independent Director and chairs of our standing Board committees. We do not provide Board and committee meeting fees. Compensating our directors in this manner simplifies the administration of our program and creates greater equality in rewarding service on committees of the Board. The additional retainers compensate directors for the additional responsibilities and time commitments involved with chairperson responsibilities.
- We pay for, provide or reimburse directors for expenses, including business class travel, incurred to attend Board and committee meetings and director education programs.
- Directors do not have a retirement plan.
- Directors who are our employees receive no additional compensation for service on the Board.

Determining Director Compensation

Our Compensation Committee reviews our director compensation program periodically to confirm that the program remains appropriate and competitive and recommends any changes to our full Board for consideration and approval.

The Compensation Committee engaged Radford to provide a comprehensive review of compensation for non-employee directors in comparison to the same compensation peer group used for the Company's executive compensation analysis. The analysis included review of cash retainer, initial and annual equity grants, vesting schedules, meeting fees for Board and committee service. After considering the analysis provided by Radford in early 2019, the Committee did not change non-employee director compensation from 2018.

PROCESS FOR DETERMINING NON-EMPLOYEE DIRECTOR COMPENSATION



Director and Executive Officer Stock Ownership Guidelines

The Board adopted stock ownership guidelines to more closely align the interests of our directors and executive officers with those of our long-term stockholders. Under the guidelines, the following persons are expected to maintain a minimum investment in our common stock as follows:

- Non-employee directors, the lesser of 3,000 shares or three times their annual cash Board retainer (excluding committee retainers);
- The CEO, five times his annual salary; and
- Senior executive officers, the lesser of 5,000 shares or one times their respective annual salaries.

Vested stock options and unvested RSUs count toward required stock ownership levels. Indirect ownership of shares through a separate legal entity counts toward fulfillment of the ownership guidelines. Ownership requirements are to be achieved no later than four years after the election as a director or as an executive officer, except that prior to such time the director or officer is expected to retain a certain portion of stock issued upon exercise of stock options or vesting of RSUs until the minimum ownership levels are attained. All directors and executive officers were in compliance with our stock ownership guidelines on December 31, 2019.

2020 Update: After a review of peer practices, the NCGC recommended and the Board approved, the following increased stock ownership requirements effective February 2020:

- Non-employee directors, five times their annual cash Board retainer (excluding committee retainers); and
- Senior executive officers, two times their respective annual salaries.

The CEO's stock ownership requirement was not changed. Also, vested stock options no longer count toward required stock ownership levels.

Advisory Approval of Our Executive Compensation

We are asking our stockholders to cast an advisory vote to approve the compensation of the Named Executive Officers as disclosed in this Proxy Statement in accordance with the requirements of Section 14A of the Exchange Act. This proposal gives our stockholders the opportunity to express their views on the design and effectiveness of our executive compensation program. As most recently approved by our stockholders in 2017, we submit this proposal for a non-binding vote on a triennial basis. At the annual meeting of stockholders in 2017, the last time this proposal was up for a non-binding, advisory vote, over 98% of stockholders voted in favor of our executive compensation practices as disclosed in our 2017 proxy statement.

Our compensation program is designed to be simple, effective and link pay to performance. It reflects the size, scope and success of IPG's business as well as the responsibilities of our NEOs. We believe our compensation program strikes the appropriate balance between utilizing responsible, measured pay practices and effectively incentivizing our executives to dedicate themselves fully to value creation for our stockholders. We encourage you to read the *Compensation Discussion and Analysis* below and the compensation tables and narrative disclosures that follow for additional details about our 2019 executive compensation program for our NEOs, including information about 2020 compensation.

As an advisory vote, the results of this vote will not be binding upon the Board or the Company. However, the Compensation Committee and the Board value the opinions expressed by our stockholders on this proposal and will consider the outcome of the vote when making future decisions on the compensation of our NEOs.

Thus, the Company is submitting to stockholders the following resolution for their consideration and approval:

RESOLVED, that the stockholders approve, on an advisory basis, the compensation of the Company's Named Executive Officers as disclosed in this Proxy Statement pursuant to the compensation disclosure rules of the Securities and Exchange Commission (including in the Compensation Discussion and Analysis, the accompanying compensation tables and related narrative).

The Board of Directors recommends that you vote **FOR** approval of our executive compensation.

Compensation Committee Report

The Compensation Committee of the Board has reviewed and discussed with management the Compensation Discussion and Analysis included in this Proxy Statement. Based on this review and discussion, the Compensation Committee recommended to the Board that the Compensation Discussion and Analysis be included in the Company's Proxy Statement for the Company's 2020 Annual Meeting of Stockholders and in the Company's Annual Report on Form 10-K for the year ended December 31, 2019.

COMPENSATION COMMITTEE

Catherine P. Lego, *Chair*
Gregory P. Dougherty
Eric Meurice
John R. Peeler

March 18, 2020

The information in the Compensation Committee Report shall not be considered "soliciting material" or "filed" with the SEC, nor shall this information be incorporated by reference into any previous or future filings under the Securities Act of 1933, as amended, or the Securities Exchange Act of 1934, as amended, except to the extent that the Company incorporates it by specific reference.

Compensation Discussion and Analysis

Executive Overview

This Compensation Discussion and Analysis provides a review of our executive compensation philosophy and program, and Compensation Committee decisions for fiscal 2019. The discussion in this section focuses on the compensation of the NEOs for fiscal 2019, who were:

**VALENTIN P.
GAPONTSEV, PH.D.**

Chairman and Chief Executive Officer

**EUGENE
SCHERBAKOV, PH.D.**

Chief Operating Officer, the Managing Director of IPG Laser GmbH, our subsidiary, and Senior Vice President, Europe

**TIMOTHY
P.V. MAMMEN**

Senior Vice President and Chief Financial Officer

**ANGELO
P. LOPRESTI**

Senior Vice President, General Counsel and Secretary

**ALEXANDER
OVTCHINNIKOV, PH.D.**

Senior Vice President, Components

Detailed bios of the NEOs are included in the Annual Report.

Financial and Strategic Highlights of 2019

We shipped a record number of high power lasers in 2019 and increased sales of lasers at 10 kilowatts or greater by more than 25%. However, given weaker industrial demand trends resulting from escalation of the US-China trade conflict and macroeconomic challenges in our largest regions, revenue in 2019 decreased by 10%. As we enhance our capability in providing complete laser solutions to end customers, we sold a record number of laser systems for materials processing in 2019. Furthermore, we are leveraging one of the largest R&D investments in the laser industry to launch leading edge products, and in 2019 new product sales were 19% of total revenue. Because of lower absorption of fixed costs in our vertically-integrated production model, lower product pricing, foreign exchange headwinds and other factors, our industry-leading gross margin declined to 46%. We delivered operating cash flow of \$324 million in 2019 and maintain one of the strongest balance sheets in the industrial automation industry, with more than \$1 billion net cash and ample liquidity at December 31, 2019.

2019 Executive Compensation Highlights and Changes to 2020 Compensation Program

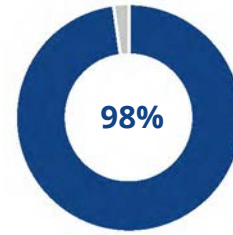
The Compensation Committee held 2019 executive base salaries, target annual incentives and long term equity incentives at 2018 levels, reflecting the global macroeconomic environment existing at the start of 2019. Financial performance fell short of targets in 2019, which resulted in no 2019 annual incentive payouts for financial performance. Variable cash compensation opportunity is based upon annual net sales and profitability against threshold, target and maximum performance goals. Our NEOs earned a smaller payout based upon their individual performance evaluation as they undertook operational improvements to reduce expenses and increase cash flow as the demand downturn continued.

In 2019, our equity-based award program for executives included service-based stock options, service-based RSUs, and performance-based stock units ("PSUs"), with each award type representing approximately one-third of the overall 2019 long-term incentive opportunity (at target for the PSUs). In 2019, the Compensation Committee changed the index against which the relative performance of the Company's stock is measured for the 2019 PSU awards to the S&P Composite 1500 Electronic Equipment, Instrument and Components Index ("S&P Electronics Index") because this index has a higher overall correlation among constituents with the Company, and because the Company's market cap, revenue and volatility are more in line with the range of such measures in the S&P Electronics Index as compared to the Russell 3000 Index used for prior years. IPG is a member of the S&P Electronics Index. Also in 2019, the Compensation Committee modified executive employment agreements allowing the Company to terminate employment for cause if the executive violates the Company's Code of Business Conduct, and placing limits on certain outside activities without consent of the Board.

For 2020, executive base salaries and target annual incentives remain at 2018 levels; however, changes were made to the amount of equity incentives provided to Dr. Scherbakov and Mr. Mammen. Consistent with our pay-for-performance philosophy, the Compensation Committee modified our executive equity-based award program increasing the percentage of performance-based awards, which will now include an award based upon an operating metric. The Compensation Committee approved 2020 awards comprised of service-based RSUs (50%), and PSUs based upon relative total stockholder return (at target, 25%), and operating cash flow (at target, 25%).

Stockholder Feedback

At our 2017 annual meeting of stockholders, our stockholders overwhelmingly approved our executive compensation structure in a “say-on-pay” advisory vote, voting 98% in favor of our executive compensation structure. As a result of the 2017 vote, the Compensation Committee determined not to change its pay philosophy or practices. Also at our annual meeting in 2017, the advisory proposal to hold “say-on-pay” advisory votes every three years received the greatest amount of votes and, therefore, we elected to submit the advisory “say-on-pay” proposal to our stockholders on a triennial basis. Accordingly, Proposal 2 is the “say-on-pay” vote.



Say-on-pay approval during last stockholder vote (2017)

Executive Compensation Best Practices

PRACTICES WE EMPLOY

- ✓ *Align our NEO Pay with Performance:* Strong links of compensation to Company performance and stockholder returns for annual and long term incentives. Annual bonus tied to revenue and net income and long term incentives include performance-based stock units which are earned based upon IPG’s total stockholder return relative to a broad stock market index and stock options which have value only if the stock price increases over the grant date price.
- ✓ *Balance Annual and Long-Term Incentives:* Incentive programs provide an appropriate balance of annual and long-term incentives and include multiple measures of performance.
- ✓ *Use Long-Term Incentives to Link Executive Pay to Company Performance:* Approximately 74% of NEO (other than the CEO) pay consists of long-term incentives linked to increasing our stock price. CEO receives no equity.
- ✓ *Cap Incentive Award Payouts:* Annual incentive plan award payouts and certain long-term incentive awards are capped.
- ✓ *Maximize Stockholder Value While Mitigating Risk:* Service-based equity awards vest over four years. This incentivizes long-term growth and discourages short-term risk taking.
- ✓ *Independent Compensation Consultant:* The Compensation Committee retains a compensation consultant, who is independent and without conflicts of interest with the Company.
- ✓ *Robust Stock Ownership Requirements:* Officers and directors are subject to stock ownership guidelines to further align their interests with stockholder interests. Our NEOs substantially exceed the ownership guidelines.
- ✓ *Clawbacks on Executive Compensation:* We adopted a compensation recovery policy covering cash and equity.

PRACTICES WE AVOID

- ✗ *No Guaranteed Annual Bonuses:* Our annual incentive compensation plan is performance-based and does not include any minimum payout levels.
- ✗ *No Retirement Benefits:* We have no supplemental executive retirement plans (SERPs) or defined benefit pension plans.
- ✗ *No Tax Gross-Ups:* We do not provide tax gross reimbursements for change in control payouts or executive perquisites.
- ✗ *No Significant Perquisites:* We provide limited perquisites to our NEOs.
- ✗ *Hedging of Company Stock is Prohibited.*
- ✗ *No Severance For “Cause” Terminations.*
- ✗ *No Single-Trigger Change in Control Provisions.* Equity awards for NEOs generally require a “double-trigger” of both a change-in-control and termination of employment for both cash and equity compensation acceleration.
- ✗ *No Stock Option Repricing without Stockholder Approval.* Our equity plans prohibit repricing underwater stock options.
- ✗ *Pledging of Company stock is limited.*

2019 Compensation of Named Executive Officers

Our Business and Our Compensation Philosophy

The guiding principles of our executive compensation philosophy and practices continue to be pay-for-performance, accountability for annual and long-term performance, alignment to stockholders' interests, and providing competitive pay to attract and retain executives. We believe our compensation program strikes the appropriate balance between utilizing responsible, measured pay practices and effectively incentivizing our executives to dedicate themselves fully to value creation for our stockholders.

Our executive compensation program is designed to focus our executive officers on both annual and long-term financial and operational performance without encouraging unnecessary risk. The following graphs show that approximately 22% of the CEO's total direct compensation and approximately 78% of the average total direct compensation of all of the other NEOs, as reflected in the 2019 column of the Summary Compensation Table, is at risk.

Our CEO, the Company's founder, does not receive long-term incentive compensation because of his significant level of common stock ownership which the independent directors believe provides him with sufficient incentives to act in the best long-term interest of our stockholders. As a result, a smaller percentage of his total compensation is performance-based as compared to the chief executives of our peer companies who typically receive additional compensation in the form of substantial long-term incentives.

The PSU awards in the chart below are presented at target based upon grant date fair value. The annual incentive plan amounts are presented based on actual amounts earned under the annual incentive plan for services rendered in 2019.

Compensation Element		Objective
FIXED	<p>Base Salary</p> <p>CEO* OTHER NEOs</p> <p>* CEO receives no equity awards</p>	<ul style="list-style-type: none"> • Provide a competitive fixed component of cash compensation to attract and retain talented and experienced executives with the knowledge and skills necessary to achieve the Company's strategic business objectives • The Compensation Committee uses the services of an independent compensation consultant to assess the base salaries as compared to a competitive target range of the Company's peer group • The Compensation Committee considers these factors when setting base salaries of the NEOs: scope of the NEO's responsibilities, contributions, skills, knowledge, experience, seniority and annual and long-term Company performance
	<p>Annual Incentive Plan</p> <p>CEO OTHER NEOs</p>	<ul style="list-style-type: none"> • Offer a variable cash compensation opportunity that may be earned based upon the level of achievement of challenging corporate goals, with an additional compensation opportunity based upon individual performance • Foster a shared commitment among executives through establishment of uniform Company financial goals • Award payouts are subject to a cap of 225% of target in a performance period
AT-RISK	<p>Long-Term Incentives</p> <p>OTHER NEOs</p> <p>Performance based RSUs Service based Equity Award</p>	<ul style="list-style-type: none"> • Align interests of our NEOs (other than our CEO, who does not receive long-term incentive awards) and stockholders by motivating executive officers to increase long-term stockholder value • Service-based equity awards include stock options and RSUs. They offer certainty and long-term retention while providing additional compensation opportunity based upon increased stock price levels. Stock options further align executives with the long-term growth of stockholder value • Performance-based RSUs provide an additional incentive to our NEOs (other than the CEO) and are earned based on the Company's total stockholder return relative to a broad stock market index • Enhance retention with vesting over four years
	<p>401(k) Retirement Savings Plan</p>	<ul style="list-style-type: none"> • Provides participants the opportunity to defer a portion of their compensation and receive a company match of 50% of deferrals subject to a maximum of 6% of eligible compensation • The plan is available to all eligible U.S. employees
	<p>Pension Plan</p>	<ul style="list-style-type: none"> • We provide no pension plan or deferred compensation plan
	<p>Perquisites</p>	<ul style="list-style-type: none"> • Perquisites are limited

Base Salary

We provide base salary to our NEOs and other employees to compensate them for services rendered on a day-to-day basis during the fiscal year. Unlike annual cash incentives and long-term equity incentives, base salary is not subject to performance risk. The Compensation Committee reviews data provided by its compensation consultant and considers the factors when setting base salaries of the NEOs: experience, skills, seniority, knowledge and responsibilities of the executive and the individual's performance assessment provided by the CEO. With respect to the CEO, the Compensation Committee additionally considers the performance of the Company as a whole in its recommendation to the independent directors, who set CEO compensation.

Proposal 2 Advisory Approval of Our Executive Compensation

In 2019, the Compensation Committee evaluated the base salaries and total cash compensation for the NEOs with the assistance of Radford, its independent compensation consultant. Due to the challenging macroeconomic and foreign trade conditions beginning in 2018 and continuing into 2019, the independent directors accepted the Compensation Committee's recommendation to not increase the base salary of the CEO and the Compensation Committee concurred with the CEO's recommendation to not increase the base salaries of the other NEOs in 2019.

Annual Incentives

To focus each NEO on the importance of the Company's performance, a significant portion of the individual's potential short-term compensation is in the form of annual cash incentive pay that is tied to the achievement of goals set by the Compensation Committee. Our NEOs participate in our Senior Executive Annual Incentive Plan (the "AIP") administered by the Compensation Committee. The Compensation Committee determines who is eligible to receive awards under the AIP, defines performance goals and objectives for executives, establishes target awards for each participant for the relevant performance period, and determines the percentage of the target award that should be allocated to the achievement of each of the chosen performance goals in consultation with the CEO with respect to other executives.

ILLUSTRATION OF IPG'S ANNUAL INCENTIVE PLAN (AIP)



⁽¹⁾ Non-GAAP "Adjusted EBIT" is an internally defined performance measure that is derived from GAAP net income by adding back the provision for income taxes, interest expense and stock-based compensation expenses and deducting interest income.

Under the 2019 AIP target approved by the Compensation Committee in February 2019, the NEOs could receive cash incentive payments as a percentage of their base salaries based upon Company performance relative to the financial performance goals. Under the 2019 AIP, if a performance goal is met at the target level as determined by the Compensation Committee, the target bonus is paid for that goal. Performance above target results in a payout of a higher percentage of salary, up to 200% of the NEO's target cash bonus. Performance below target results in a lower bonus payout for that goal if a minimum threshold is met, with 18.75% of the NEO's target cash bonus as the minimum in such circumstance, or no payout if the minimum threshold is not met. At target, the financial performance payout accounts for 75% of the overall target award. The CEO and COO can earn up to 25% of their respective target awards based upon goals and objectives determined by the independent directors. For 2019, targets included strategic planning and execution, executive development, inventory management and business growth drivers. The other NEOs also are eligible for payouts up to 25% of the target award based on their individual performance and other factors the Compensation Committee deems relevant.

2019 AIP FINANCIAL PERFORMANCE TARGETS

(\$ in millions)

	Threshold 18.75% Payout	Target 100% Payout	Maximum 200% Payout	Component Weighing (%)	Financial Performance Award Earned (%)
Revenue	1,315	1,348	1,538	37.5	0
Adjusted EBIT	312	439	509	37.5	0

Revenue in 2019 was \$1,315 million and adjusted EBIT in 2019 was \$312 million, both of which were below the threshold performance required for a payout based on financial performance. At the beginning of 2019, the Compensation Committee set aggressive goals for management based upon improving business conditions seen in late 2018 and early 2019. However, the expected improvements did not materialize as the Company faced worsening conditions from escalations in the U.S.-China trade war in the second quarter, including escalating tariffs and increased customer uncertainty. Continuing macroeconomic challenges in 2019 affected capital equipment purchases in Europe and China, our two largest regions. The impact of increased price competition together with lower industrial machinery purchasing activity adversely affected both revenues and earnings. Each NEO earned the full payouts with respect to the individual performance component as they took undertook operational improvements to reduce expenses and increase cash flow as increased competition and the demand downturn continued. NEOs also guided continued investments in and development of new products.

Proposal 2 Advisory Approval of Our Executive Compensation

The table below shows, for each NEO, the total target annual incentive award, the threshold, target and maximum payouts with respect to financial performance, the maximum payout with respect to individual performance and actual bonus payouts for 2019.

(\$ in thousands)

Named Executive Officer	Target as a % of Base Salary ⁽¹⁾	Target Award ⁽¹⁾	Financial Performance			Individual Performance Maximum	Actual Award
			Threshold	Target	Maximum		
Valentin P. Gapontsev	110%	\$1,023	\$192	\$767	\$2,046	\$256	\$256
Eugene A. Scherbakov	100%	\$679	\$116	\$462	\$1,233	\$154	\$154
Timothy P.V. Mammen	80%	\$385	\$72	\$289	\$770	\$96	\$96
Angelo P. Lopresti	80%	\$350	\$66	\$265	\$707	\$88	\$88
Alexander Ovtchinnikov	80%	\$350	\$66	\$263	\$701	\$88	\$88

⁽¹⁾ Target award includes both financial (weighted at 75%) and individual performance (weighted at 25%) targets. Maximum award from all performance elements limited to 225% of target. As noted above, the NEOs received payouts only with respect to individual performance for 2019.

None of the NEOs' target bonus percentages were increased in 2019 or 2020.

Long-Term Incentives

The goal of our equity-based award program is to provide employees and executives with the perspective of an owner with a long-term financial stake in our success, further increasing alignment with stockholders. Our equity-based incentives align the interests of our executives and stockholders by motivating executives to increase long-term stockholder value.

In 2019, our equity-based award program for our NEOs (other than our CEO) included service-based stock options, service-based RSUs, and PSUs, with each award type representing approximately one-third of the overall 2019 long-term incentive award opportunity (at target for the PSUs). The type and proportion of the equity grants reflected a 2019 review by our Compensation Committee with the assistance of Radford of grant practices at peer companies. The value of stock options, RSUs and PSUs are tied to the Company's stock price which links pay to performance.

Consistent with our pay-for-performance philosophy, the service-based stock option awards have no value unless our stock price increases after the grant date.

The Compensation Committee believes that vesting of awards of service-based options and RSUs over four years provides a strong incentive for executives to remain employed by us and to focus on increasing our financial performance over the long-term, while discouraging excessive short-term risk taking. The Compensation Committee believes that PSUs should vest over three years, rather than four years, because having a four-year performance period would reduce the utility of the performance award and not properly align pay with performance. Service-based RSUs granted in 2019 may be entitled to dividends, should any be paid, at the discretion of the Compensation Committee. Any dividends on shares underlying the PSUs do not vest until the PSUs vest.

In 2019, the Compensation Committee used competitive market data from the total compensation study of peer companies, balancing the perspective of delivering competitive compensation based upon Black-Scholes option pricing values and Monte Carlo simulations for PSUs. The Compensation Committee analyzed several aspects of the equity grant program, including (i) the “in the money” value, the degree to which executives have incentives to remain employed by the Company through unvested option values, and (ii) the aggregate equity usage in terms of (a) annual usage, typically called burn rate, and (b) cumulative equity delivery, typically called overhang, to determine the dilutive effect of equity awards on investors. The majority of outstanding equity award holdings of the executives were allocated to unvested shares in the aggregate, and all such executives had a minimum of two years’ worth of annual award values in unvested equity value. Based upon this information, Radford advised the Compensation Committee that our equity program provides strong retention incentives.

Since the Company’s initial public offering in 2006, the Compensation Committee has not granted the CEO any equity compensation awards. As the Company’s founder and the beneficial owner of a large number of our shares, he has the perspective of an owner with a significant financial stake in the Company’s success and a long-term outlook. This practice has resulted in substantially lower total compensation earned by our CEO as compared to the chief executives of our named peers despite our outstanding business and earnings growth over the long term. In addition, this practice results in a lower compensation expense and lower equity burn rate for the Company.

For the 2019 PSU awards, the Compensation Committee changed the index against which the relative performance of the Company’s stock is measured. The Compensation Committee considered the analysis of Radford with respect to the current peer index, the Russell 3000, and other peer index alternatives. The Committee selected the S&P Composite 1500 Electronic Equipment, Instrument and Components Index (“S&P Electronics Index”) as the 2019 relative stock index for the PSUs in part because it has a higher overall correlation among constituents with the Company, and the Company’s market cap, revenue and volatility are in line with the range of such measures in the index. IPG is a member of the index. This directly aligns executives’ compensation with stockholders interest because the number of shares earned depends upon performance against the S&P Electronics Index and the value of the shares fluctuates based on the stock price. For each 1% by which the Company’s common stock exceeds the performance of the S&P Electronics Index for the trailing 60 trading days from the end of the performance measurement period (March 1, 2022) against the comparable period from the beginning of the performance measurement period (March 1, 2019), the grant recipient would receive a 2% increase in the number of shares above target (up to a maximum share cap of 200% of the target award).

For each 1% by which the Company’s common stock falls below the S&P Electronics Index’s performance, the grant recipient would receive a 2% decrease in the number of shares (down to zero). In addition, NEOs cannot receive a number of shares that exceeds 600% of the value of the target award on the date of grant.

The table below provides information on grants of service-based stock options, service-based RSUs and PSUs to the NEOs in 2019. All awards in the table below vest 25% on each anniversary of March 1, 2019, except for the PSUs, which vest on March 1, 2022, the last day of the three-year performance measurement period.

Name	Service-Based Stock Options (#)	Exercise Price (\$)	Service-Based Restricted Stock Units (#)	Performance-Based Stock Units (at Target) (#)	Performance-Based Stock Units Range (Based upon Achievement) (#)
Valentin P. Gapontsev	—	—	—	—	—
Eugene A. Scherbakov	17,908	154.88	6,214	6,214	0 - 12,428
Timothy P.V. Mammen	8,654	154.88	3,003	3,003	0 - 6,006
Angelo P. Lopresti	7,540	154.88	2,616	2,616	0 - 5,232
Alexander Ovtchinnikov	7,472	154.88	2,592	2,592	0 - 5,184

Proposal 2 Advisory Approval of Our Executive Compensation

Actual Performance of Performance-Based Stock Units. The table below contains information concerning award performance for PSUs awarded from 2016 to 2019.

	2016	2017	2018	2019	2020	2021
2016 PSUs						
Target TSR Index (Russell 3000® Index)	59.7%					
IPG Performance	200%					
Final 2016 Payout	125%					
	← Range 0-200% →					
2017 PSUs						
Target TSR Index (Russell 3000® Index)	47.9%					
IPG Performance	31.8%					
Final 2017 Payout	67.7%					
	← Range 0-200% →					
2018 PSUs						
Target TSR Index (Russell 3000® Index)	TBD					
IPG Performance and Payout	TBD					
	← Range 0-200% →					
2019 PSUs						
Target TSR Index (S&P Electronics Index)	TBD					
IPG Performance and Payout	TBD					
	← Range 0-200% →					

Other Compensation

Severance Benefits. The severance benefits that we offer to our NEOs assist us in recruiting and retaining talented individuals and are consistent with the range of severance benefits offered by our peer group. The severance provisions of our NEO employment agreements are summarized in *Potential Payments upon Termination or Change in Control* below.

Retirement Benefits. We do not offer an executive retirement plan or a non-qualified deferred compensation plan. Executives in the United States are eligible to participate in our 401(k) retirement savings plan on the same terms as all other U.S. employees. Our 401(k) retirement savings plan is a tax-qualified plan and therefore is subject to certain Internal Revenue Code limitations on the dollar amounts of deferrals and company contributions that can be made to plan accounts. These limitations apply to our more highly-compensated employees (including the NEOs). We made matching contributions to our employees at a rate of 50% of deferrals subject to a maximum of 6% of eligible compensation under the 401(k) retirement savings plan, including the NEOs, who participate in the plan as set forth in the Summary Compensation Table. Dr. Scherbakov, who resides in Germany, participates in a German government-sponsored retirement program.

Personal Benefits. Our executives are eligible to participate in employee benefit plans, including medical, dental, life and disability insurance and vacation plans as well as an employee stock purchase plan, which is intended to be qualified under Section 423 of the Code. The employee stock purchase plan allows participants to purchase Company shares at a price equal to 85% of the lesser of the fair market value at the first day or last day of the six month offering period, subject to limitations on the amount of shares. These plans generally are available to all salaried employees and do not discriminate in favor of executives. Benefits are intended to be competitive with the overall market in order to facilitate attraction and retention of high-quality employees.

The Compensation Committee compared the Company's executive perquisites policies against the 2019 peer group and made no changes. The Company provides the use of a corporate aircraft to the CEO and other executives for business travel integral to the performance of their duties. Executives are encouraged to use the aircraft for efficiency, safety and security. However, executives are not allowed to use the aircraft for personal use that has not been paid for, except that family and other guests may accompany executives on the aircraft for business travel. The Company provides the CEO with a car and driver in the United States so that he may use his travel time for company purposes. The Company also provides Dr. Scherbakov use of an automobile, as it does for other high-ranking employees in Germany.

Executive Compensation Decision-Making

Role of Compensation Committee

The Compensation Committee determines, approves and administers the compensation programs for our executive officers, including our NEOs. The Compensation Committee recommends to the independent directors the CEO's annual base salary, annual incentive opportunity and long-term incentive opportunity. The independent directors approve the CEO's compensation and our Compensation Committee approves the compensation for other executive officers in consultation with our CEO. Our Compensation Committee is also responsible for making recommendations to the Board with respect to the adoption of equity plans and certain other benefit plans. The Compensation Committee and the independent directors meet in executive decisions when determining executive compensation.

The Compensation Committee may delegate authority whenever it deems appropriate. In 2019, the Compensation Committee delegated authority to grant equity awards for non-executives to the CEO, subject to certain conditions, including amounts of awards and review of awards by the Compensation Committee.

Our Compensation Committee's policy is to set executive pay in accordance with the objectives of the Company's compensation programs as described above. In the Compensation Committee's view, the Company's executive compensation program provides an overall level of compensation opportunity that is competitive with peer companies. Actual compensation levels may be greater or less than target compensation levels provided by similar companies based upon annual and long-term Company performance, as well as individual performance, contributions, skills, seniority, knowledge, experience and responsibilities.

Role of Management

The CEO participates in the establishment of compensation levels and payouts for individual performance for other NEOs. He assesses the performance of all NEOs and recommends to the Compensation Committee the overall levels of achievement, and personal performance in the year. Upon request, the NEOs provide supplemental material to the Compensation Committee to assist in the determination and implementation of compensation, policies and practices. The CEO is not involved in decisions regarding the setting of any component of his compensation. The CEO and other members of senior management attend Compensation Committee meetings at the invitation of the Compensation Committee.

Role of Independent Consultant

The Compensation Committee engaged Radford, an independent compensation consultant, to conduct a comprehensive review and analysis of our executive and non-employee director compensation programs and to make recommendations for compensation related to 2019. The consultation included non-executive compensation data and valuation services for equity incentives. Radford's parent company, Aon Hewitt, does not perform any other work for the Company. The Compensation Committee reviews the independence of Radford in light of SEC rules and Nasdaq listing standards regarding compensation consultants. The Compensation Committee believes that there were no actual or potential conflicts of interest with Radford in 2019.

Pay Positioning Strategy and Peer Group

Consistent with prior years, in 2019 the Compensation Committee used competitive compensation data from the annual total compensation study of peer companies to inform its decisions about overall compensation opportunities and specific compensation elements. Additionally, the Committee used multiple reference points when establishing targeted compensation levels. Within the comparative framework, the primary data was the named peer group of specific peers selected by the Compensation Committee and the secondary data was broader, size-appropriate comparisons in the high technology industry using Radford High Technology Survey Data. The Committee does not benchmark specific compensation elements or total compensation to any specific percentile relative to the peer companies or the broader United States market. Instead, the Committee applies judgment and discretion in establishing targeted pay levels, taking into account not only competitive market data, but also factors such as Company, business and individual performance, scope of responsibility, critical needs and skill sets, leadership potential and succession planning. No single factor takes precedence over any other, nor is any formula used in making these decisions.

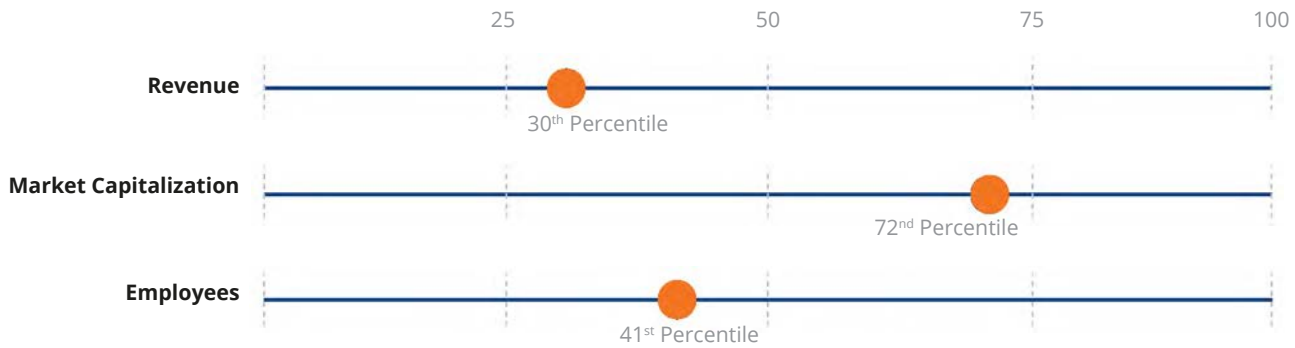
The peer companies selected by the Compensation Committee are companies that operate in the semiconductor equipment and electronic manufacturing industries, and are comparable in terms of revenue, market capitalization and headcount.

For 2019, the peer companies were:

Arista Networks, Inc.	Barnes Group, Inc.	Cognex Corporation
Coherent, Inc.	Dolby Laboratories, Inc.	Donaldson Company, Inc.
Entegris, Inc.	FLIR Systems, Inc.	Graco, Inc.
IDEX Corporation	II-VI Incorporated	ITT, Inc.
MKS Instruments, Inc.	National Instruments, Inc.	Nordson Corporation
Teradyne, Inc.	Trimble Navigation Limited	Waters Corporation
Zebra Technologies, Inc.		

The Compensation Committee reviews this peer group annually with input from Radford to ensure that the comparisons are meaningful. In this review, the Compensation Committee considers several factors in developing a peer group: it considers the current peer group to determine appropriateness, the peers used by institutional governance advisors, the companies that list our company as a peer to understand crossover peers and broader research based upon established selection criteria to identify potential future peers. The Committee then develops criteria for business sector, revenue, market capitalization and headcount. Radford also supplements its peer analysis with the data from a broader list of high-technology public company participants in the AON Radford Executive Technology Survey targeting technology companies with comparable revenue levels. Companies that are no longer publicly traded are omitted from the peer group. Based upon the process and applying the criteria above, the Compensation Committee applied the methodology above and determined the peer group approved for 2018 continued to be appropriate for 2019.

COMPANY VS. PEER GROUP



2020 Update. For 2020 compensation determinations, the Compensation Committee reviewed the analysis from Radford regarding the Company’s peer group. Radford performed an analysis of similarly-situated public companies, supplemented the peer group with published survey data providing a broad market representation of companies and deeper position reporting, as well as set parameters for the peer group study. For 2020, the analysis by Radford proposed adding Watts Water Technologies, Inc. (industrial machining) and Lumentum Holdings Inc. (communications networks and lasers), and removing Zebra Technologies (electronics equipment and instruments) and Arista Networks (communications networks) because of their different business focuses. The Compensation Committee approved the proposed changes to the peer group for 2020 compensation determinations.

Other Factors Affecting Compensation

Tax Deductibility under Section 162(m). Section 162(m) of the Internal Revenue Code (“Section 162(m)”) limits the deductibility for federal income tax purposes of certain compensation paid in any year by a publicly held corporation to its “covered employees” as defined by Section 162(m) (generally, our current and former NEOs) to \$1 million per executive (the “\$1 million cap”). Prior to the enactment of the Tax Cuts and Jobs Act (“TCJA”), Section 162(m) provided an exception from this deduction limitation for certain forms of “performance-based compensation,” which included annual incentive payments, the gain recognized by NEOs upon the exercise of stock options and the income recognized on the vesting of performance share awards. Due to the TCJA, the “performance-based” compensation exception to the \$1 million cap does not apply for tax years after 2017, unless certain limited transition relief is met. The Compensation Committee retains the discretion to grant or pay compensation that exceeds the \$1 million cap or may not qualify for the performance-based compensation exception to Section 162(m). The Compensation Committee believes it is appropriate to retain the flexibility to authorize payments of compensation that may not qualify for deductibility if, in the Compensation Committee’s judgment, it is in the Company’s best interest to do so. In the past, the Compensation Committee generally sought to structure performance-based compensation for our covered employees, and to undertake the required ministerial actions, in a manner that complies with Section 162(m) in order to provide for the deductibility of such compensation to the extent possible. We generally will continue to emphasize performance-based compensation, even though it may no longer be deductible.

Accounting Considerations. We consider the accounting implications of our executive compensation program. In addition, accounting treatment is just one of many factors impacting plan design and pay determinations. Our executive compensation program is designed to achieve a favorable accounting and tax treatment as long as doing so does not conflict with the intended plan design or program objectives.

Compensation Risk

Management conducts an annual risk assessment of the Company's compensation policies and practices for all employees, including non-executives, and reports its findings to the Compensation Committee. In 2019, management concluded that the Company's compensation policies and practices are balanced and do not motivate imprudent risk taking. Management believes that the Company's compensation policies do not create risks that are reasonably likely to have a material adverse effect on the Company.

In reaching this conclusion, they considered the following factors:

- our compensation program is designed to provide a mix of both fixed and variable incentive compensation;
- our senior executives are subject to stock ownership guidelines, which we believe incentivize our executives to consider the long-term interests of the Company and our stockholders and discourage excessive risk-taking that could negatively impact our stock price;
- our senior executives are subject to compensation recovery policy, which discourages excessive risk-taking that could negatively affect our stock price;
- our incentive compensation programs are designed with vesting terms that are relatively consistent, spread out over several years, and do not contain steep payout "cliffs" that might encourage short-term business decisions in order to meet a vesting or payout threshold; and
- our senior executive incentive compensation program caps the amounts that may be paid for performance above target level.

Other Policies

Anti-Hedging and Limitations on Pledging of Company Stock. The Board adopted policies prohibiting hedging transactions and limiting the pledging of our common stock. Under our insider trading policy, no director or employee may engage in shorting shares of our common stock or any type of securities that we may issue, or buying or selling puts, calls or derivatives related to our common stock. A director or officer of the Company may not pledge shares constituting more than 20% of his or her total stock ownership. Pledges of shares constituting 20% or less of total stock ownership are subject to certain conditions.

Stock Ownership Guidelines. The Board adopted stock ownership guidelines to closely align the interests of our executives with those of our long-term stockholders. Under the guidelines, the CEO is expected to maintain a minimum investment on our common stock of five times his annual salary and other senior executives are expected to maintain a minimum investment on our common stock of the lesser of 5,000 shares or one times their respective annual salaries. All of our senior executives substantially exceed the ownership requirements under our stock ownership guidelines. These ownership levels are to be achieved no later than four years after the election as an executive officer, except that prior to such time the officer is expected to retain a certain portion of stock issued upon exercise of stock options or vesting of restricted stock awards until the minimum ownership levels are attained. For more information, including recent updates to these guidelines, see *Proposal 1 - Director Compensation - Director and Executive Officer Stock Ownership Guidelines*.

Clawback Policies. In 2015, the Compensation Committee approved a compensation recovery policy that allows the Company to recapture cash and equity performance-based compensation from executives if the amount of the award was based upon achieving certain financial results that were later restated due to the participant's misconduct. In addition, all equity awarded to employees since 2007 contain a provision under which employees may be required to forfeit equity awards or profit from equity awards if they engage in certain conduct, including competing against the Company, disclosing confidential information, or soliciting its employees or customers.

Executive Compensation Tables

Summary Compensation Table

The following table provides information regarding compensation earned by our Chief Executive Officer, our Chief Financial Officer and our three other most highly compensated executives for the fiscal years indicated below:

Name and Principal Position	Year	Salary (\$)	Bonus (\$)	Stock Awards (\$) ⁽¹⁾	Option Awards (\$) ⁽¹⁾	Non-Equity Incentive Plan Compensation (\$) ⁽²⁾	All Other Compensation (\$) ⁽³⁾	Total (\$)
Valentin P. Gapontsev Chief Executive Officer and Chairman of the Board ⁽⁴⁾	2019	930,000	—	—	—	255,750	66,234	1,251,984
	2018	1,004,585	—	—	—	568,000	50,150	1,622,735
	2017	832,000	—	—	—	1,399,100	53,583	2,284,683
Eugene Scherbakov Chief Operating Officer, Managing Director of IPG Laser GmbH, Senior Vice President, Europe and Director ⁽⁴⁾	2019	616,730	—	2,152,254	930,281	154,155	24,647	3,878,067
	2018	673,694	—	2,095,549	924,421	351,800	23,472	4,068,936
	2017	510,000	—	899,514	340,038	769,300	23,028	2,541,880
Timothy P.V. Mammen Chief Financial Officer and Senior Vice President	2019	481,200	—	1,040,106	449,556	96,240	9,642	2,076,744
	2018	481,200	—	1,012,796	446,741	213,700	9,060	2,163,497
	2017	458,300	—	763,578	288,607	577,000	8,910	2,096,395
Angelo P. Lopresti Senior Vice President, General Counsel and Secretary	2019	442,100	—	906,066	391,686	88,420	10,722	1,838,994
	2018	442,100	—	882,281	389,166	196,400	10,572	1,920,519
	2017	421,000	—	623,394	235,635	530,000	9,342	1,819,371
Alexander Ovtchinnikov Senior Vice President, Components	2019	438,100	—	897,754	388,154	87,620	10,722	1,882,350
	2018	438,100	—	873,928	385,669	194,600	10,572	1,902,869
	2017	417,200	—	617,553	233,503	478,200	10,422	1,756,878

⁽¹⁾ Valuation based on the fair value of such awards as of the grant date determined pursuant to Financial Accounting Standards Board Accounting Standards Codification Topic 718 ("ASC Topic 718"). The assumptions that we used with respect to the valuation of service-based RSUs, PSUs and stock option awards are set forth in Note 12 to our Consolidated Financial Statements in our Annual Report. The amounts in the Stock Awards column reflect service-based RSUs and PSUs granted in 2019. The value of the PSUs is based on the probable outcome of the performance conditions (at the grant date) in accordance with ASC Topic 718 assuming no forfeiture. The values of PSUs at the grant date assuming the highest level of performance conditions will be achieved are \$5,403,197, \$2,611,169, \$2,274,664 and \$2,253,796 for Dr. Scherbakov, Messrs. Mammen and Lopresti and Dr. Ovtchinnikov respectively. There is no assurance that any of the performance targets will be achieved, that the service-based awards will vest or that any of the recipients will realize the values listed above. Stock option awards and RSUs vest over four years, beginning on the first anniversary of the award date. Stock option awards have a term of ten years. PSUs cliff vest three years after start of the performance measurement period, if at all.

⁽²⁾ Represents amounts earned under our AIP for services rendered in 2019, 2018 and 2017, respectively.

⁽³⁾ The amount in 2019 for Dr. Gapontsev consists of premiums paid for group life insurance, the direct variable cost to the Company associated with a non-employee guest accompanying him on the Company's aircraft when traveling to a specific destination for a business purpose and the expense of a automobile and driver (\$49,594) provided by us for his transportation to the Company's headquarters. The amount in 2019 for Dr. Scherbakov is the expense of an automobile provided by us.

⁽⁴⁾ Portions of the amounts paid to Drs. Gapontsev and Scherbakov were denominated in Euros and Rubles. Dr. Gapontsev's 2018 salary amount includes \$74,585 in cash paid in lieu of accrued vacation. Dr. Scherbakov's 2019 salary was approved in Euro. Amounts paid in foreign currencies were translated into U.S. Dollars at the average daily exchange rates for the full years. The average daily rates in 2019, 2018 and 2017, for the Euro were 0.89, 0.84 and 0.89, respectively, and for the Ruble were 64.66, 62.69 and 58.3, respectively. As a result of compensation being paid in one or more currencies that fluctuate against the U.S. Dollar, the amount of salary paid may vary slightly from the salary stated in an employment agreement or approved by the Compensation Committee.

2019 Grants of Plan-Based Awards

Name	Grant Date	Estimated Possible Payouts Under Non-Equity Incentive Plan Awards (\$) ⁽¹⁾			Estimated Future Payouts Under Equity Incentive Plan Awards (#) ⁽²⁾			All Other Stock Awards: Number of Shares of Stock or Units (#) ⁽³⁾	Option Awards: Number of Securities Underlying Options (#) ⁽³⁾	Exercise or Base Price of Option Awards (\$/Share)	Grant Date Fair Value of Stock and Option Awards (\$) ⁽⁴⁾
		Threshold	Target	Maximum	Threshold	Target	Maximum				
Valentin P. Gapontsev	2/15/2019	447,563	1,023,000	2,301,750	—	—	—	—	—	—	—
Eugene Scherbakov	2/15/2019	269,771	616,620	1,387,395	—	—	—	—	—	—	—
	2/15/2019	—	—	—	3,107	6,214	12,428	—	—	—	1,195,946
	2/15/2019	—	—	—	—	—	—	6,214	—	—	956,308
	2/15/2019	—	—	—	—	—	—	—	17,908	154.88	930,281
Timothy P.V. Mammen	2/15/2019	168,420	384,960	866,160	—	—	—	—	—	—	—
	2/15/2019	—	—	—	1,502	3,003	6,006	—	—	—	577,957
	2/15/2019	—	—	—	—	—	—	3,003	—	—	462,149
	2/15/2019	—	—	—	—	—	—	—	8,654	154.88	449,556
Angelo P. Lopresti	2/15/2019	154,740	353,680	795,780	—	—	—	—	—	—	—
	2/15/2019	—	—	—	1,308	2,616	5,232	—	—	—	503,475
	2/15/2019	—	—	—	—	—	—	2,616	—	—	402,591
	2/15/2019	—	—	—	—	—	—	—	7,540	154.88	391,686
Alexander Ovtchinnikov	2/15/2019	153,335	350,480	788,580	—	—	—	—	—	—	—
	2/15/2019	—	—	—	1,296	2,592	5,184	—	—	—	498,856
	2/15/2019	—	—	—	—	—	—	2,592	—	—	398,898
	2/15/2019	—	—	—	—	—	—	—	7,472	154.88	388,154

⁽¹⁾ Amounts shown include possible payouts under the AIP for 2019 financial performance at the three goals plus individual performance at maximum for each. The performance goals used in determining AIP payments are discussed in *Compensation Discussion and Analysis-Annual Incentives* above. Actual amounts paid for 2019 performance are shown in the “Non-Equity Incentive Plan Compensation” column in the Summary Compensation Table above.

⁽²⁾ For a description of the PSUs, see *Compensation Discussion and Analysis-Long Term Incentives* above.

⁽³⁾ The amounts listed reflect service-based RSUs and stock options granted under our 2006 Incentive Compensation Plan and are described in the Outstanding Equity Awards Table below.

⁽⁴⁾ The awards are reported based on the fair value as of the grant date determined pursuant to ASC Topic 718. The assumptions that we used with respect to the valuation of equity awards are set forth in Note 12 to our Consolidated Financial Statements in our Annual Report on Form 10-K filed with the SEC on February 24, 2020. The option exercise price has not been deducted from the amounts indicated above and we disregard an estimate of forfeitures. Regardless of the value placed on an equity award on the grant date, the actual value of the equity award will depend on the market value of our common stock at such date in the future when the RSU vests or the stock option is exercised, and the performance of our common stock in relation to the S&P Composite 1500 Electronic Equipment, Instrument and Components stock index on the measurement date with respect to the PSU. For informational purposes, if the maximum level of performance were achieved for the PSUs, the values as limited by the 600% value cap are \$5,403,197, \$2,611,169, \$2,274,664 and \$2,253,796 for Dr. Scherbakov, Messrs. Mammen and Lopresti and Dr. Ovtchinnikov, respectively.

2019 Outstanding Equity Awards at Fiscal Year-End

Name	Year of Grant	Option Awards ⁽¹⁾				Stock Awards ⁽¹⁾			
		Securities Underlying Unexercised Options Exercisable (#)	Securities Underlying Unexercised Options Unexercisable (#)	Option Exercise Price (\$) ⁽²⁾	Option Expiration Date	Number of Shares or Units of Stock That Have Not Vested (#)	Market Value of Shares or Units of Stock That Have Not Vested (\$) ⁽³⁾	Equity incentive plan awards: Number of unearned shares, units or other rights that have not vested (#) ⁽¹⁾⁽⁴⁾	Equity incentive plan awards: Market or payout value of unearned shares, units or other rights that have not vested (\$) ⁽⁴⁾
Valentin P. Gapontsev	—	—	—	—	—	—	—	—	—
Eugene Scherbakov	2/26/2010	1,000	—	15.82	2/25/2020	—	—	—	—
	3/1/2011	3,000	—	53.76	2/28/2021	—	—	—	—
	2/14/2012	1,500	—	58.65	2/13/2022	—	—	—	—
	3/1/2013	3,000	—	60.11	2/28/2023	—	—	—	—
	2/28/2014	13,000	—	71.77	2/27/2024	—	—	—	—
	2/25/2015	7,326	—	97.65	2/24/2025	—	—	—	—
	2/18/2016	—	7,592	81.89	2/17/2026	3,796	550,116	4,754	688,950
	2/17/2017	5,184	5,183	119.50	2/16/2027	1,694	245,494	6,776	981,978
	2/22/2018	3,436	10,308	239.72	2/21/2028	3,010	436,209	8,028	1,163,418
	2/15/2019	—	17,908	154.88	2/14/2029	6,214	900,533	12,428	1,801,066
Timothy P.V. Mammen	3/1/2013	7,500	—	60.11	2/28/2023	—	—	—	—
	2/28/2014	14,200	—	71.77	2/27/2024	—	—	—	—
	2/25/2015	7,362	—	97.65	2/24/2025	—	—	—	—
	2/18/2016	—	7,592	81.89	2/17/2026	3,796	550,116	4,754	688,950
	2/17/2017	4,400	4,399	119.50	2/26/2027	1,438	208,395	5,752	833,580
	2/22/2018	1,661	4,981	239.72	2/21/2028	1,455	210,859	3,880	562,290
	2/15/2019	—	8,654	154.88	2/14/2029	3,003	435,195	6,006	870,390
Angelo P. Lopresti	3/1/2011	9,500	—	53.76	2/28/2021	—	—	—	—
	3/1/2013	13,000	—	60.11	2/28/2023	—	—	—	—
	2/28/2014	11,000	—	71.77	2/27/2024	—	—	—	—
	2/25/2015	5,661	—	97.65	2/24/2025	—	—	—	—
	2/18/2016	—	5,861	81.89	2/17/2026	2,930	424,616	3,669	531,710
	2/17/2017	3,592	3,592	119.50	2/16/2027	1,174	170,136	4,696	680,544
	2/22/2018	1,447	4,339	239.72	2/21/2028	1,267	183,614	3,380	489,830
	2/15/2019	—	7,540	154.88	2/14/2029	2,616	379,111	5,232	758,221
Alexander Ovtchinnikov	2/28/2014	12,000	—	71.77	2/27/2024	—	—	—	—
	2/25/2015	6,161	—	97.65	2/24/2025	—	—	—	—
	2/18/2016	—	6,394	81.89	2/17/2026	3,197	463,309	4,003	580,115
	2/17/2017	3,560	3,559	119.50	2/16/2027	1,163	168,542	4,652	674,168
	2/22/2018	1,434	4,300	239.72	2/21/2028	1,255	181,875	3,348	485,192
	2/15/2019	—	7,472	154.88	2/14/2029	2,592	375,633	5,184	751,265

⁽¹⁾ The vesting dates assume the continued service of the NEO. All awards granted in 2016 vest in one installment on March 1, 2020. Service-based stock options and RSUs granted in 2017, 2018 and 2019 vest in four annual installments commencing on March 1, 2018, March 1, 2019 and March 1, 2020 respectively. PSUs granted in 2017, 2018 and 2019 vest in one installment on March 1, 2020, March 1, 2021 and March 1, 2022, respectively.

⁽²⁾ Represents the closing common stock price of a share on the grant date.

⁽³⁾ Based upon the closing common stock price on December 31, 2019, which was \$144.92 per share.

Executive Compensation Tables

⁽⁴⁾ The PSU performance measurement periods end March 1, 2020, 2021, and 2022 for units granted in 2017, 2018, and 2019, respectively. The numbers of unearned awards range from 0% to 200% based upon achievement of performance metrics and the amounts presented above assume attainment of the maximum performance levels (200%) not limited by dollar value caps. The actual payout amount for PSUs granted in 2017 which vested on March 1, 2020 was 67.7%. PSUs have dollar payout caps of 400% of target values on the dates of grant for awards granted in 2017, and 600% of target values on the date of grant for those awarded in 2018 and 2019.

Option Exercises and Stock Vested in 2019

Name	Option Awards		Stock Awards	
	Number of Shares Acquired on Exercise (#)	Value Realized on Exercise (\$)	Number of Shares Acquired on Vesting (#)	Value Realized on Vesting (\$) ⁽¹⁾
Valentin P. Gapontsev	—	—	—	—
Eugene A. Scherbakov	—	—	11,378	1,782,705
Timothy P.V. Mammen	—	—	10,731	1,681,333
Angelo P. Lopresti	—	—	8,373	1,311,882
Alexander Ovtchinnikov	—	—	9,011	1,411,843

⁽¹⁾ The value realized is based on the closing common stock prices on the vesting dates of the service-based RSUs.

Potential Payments upon Termination or Change in Control

The Company has entered into employment agreements with each of the NEOs, effective through December 31, 2020. Upon expiration, the employment agreements will automatically renew for successive one-year periods, unless the Company or a NEO provides written notice of non-renewal at least six months prior to the end of the then-current term. In the event of a change in control, the agreements would extend through the second anniversary of the change in control. The employment agreements set the annual base salaries and stipulate that the Compensation Committee may adjust the salaries annually, as noted in *Compensation Discussion and Analysis - Base Salary* above. The agreements entitle these executive officers to participate in bonus plans, standard insurance plans such as life, short-term disability and long-term disability insurance and retirement benefits, such as the 401(k) retirement savings plan and equity award plans described above, on similar terms and on a similar basis as such benefits are available to executives at similar levels within the Company. The employment agreements were modified in 2019 to allow the Company to terminate employment for cause if an NEO violates the Company's Code of Business Conduct.

If the Company terminates the employment of any of the NEOs without cause (as defined in the respective employment agreements) or any of the NEOs terminates his employment for good reason (as defined in the respective employment agreements) ("cause" and "good reason" are referred to below as "Involuntary Terminations"), then the NEO would receive:

- continuation of salary for eighteen months, except in the case of Dr. Gapontsev, who would receive continuation of salary for thirty-six months;
- a portion of the annual bonus that the NEO would have received had he remained employed through the end of the applicable bonus period, based on actual performance, including the individual performance element (the portion based upon the percentage of the year that he was employed by the Company);
- cash reimbursement for continuation of health benefits for up to eighteen months, except in the case of Dr. Gapontsev, who would receive continuation of health benefits by payment of the officer's COBRA premiums for thirty-six-months; and
- accelerated vesting of equity compensation awards that otherwise would have vested within twelve months of the termination of employment.

Upon an Involuntary Termination within twenty-four months following a change in control of the Company, the NEO would be entitled to continuation of salary and reimbursement of COBRA premiums for health benefits for twenty-four months, the pro-rated bonus for the year of termination plus a payment of two times the average annual bonus paid to the NEO for the three full years preceding the year of termination. In the case of the CEO, he would be entitled to continuation of salary and health benefits for thirty-six months, the pro-rated bonus for the year of termination plus a payment of three times the average annual bonus paid to him for the three full years preceding the termination. Under the employment agreements, all equity awards vest fully upon an Involuntary Termination that occurs within two years of a change in control. Upon a change in control, the NEOs' employment periods under the agreements would automatically be extended to the second anniversary of the change in control if such date is later than expiration of the current term.

If the total value of all payments and benefits, including any equity vesting ("total payments"), made to a NEO following a change in control would result in an excise tax under the provisions of Internal Revenue Code Section 4999 (the "golden parachute tax"), the total payments will be reduced so that the maximum amount of total payments (after reduction) is \$1.00 less than the amount that would cause the total payments to be subject to the golden parachute tax; provided, however, that the total payments will only be reduced to the extent that the after-tax value of amounts received by the officer after application of the above reduction would exceed the after-tax value of the total payments received without application of such reduction (so called "best after-tax treatment").

If the employment period of any of the NEOs terminates and the Company does not offer such NEO continued employment in the same or a substantially similar position or in a higher position than the NEO's position at the end of the employment period and at a compensation level that is the same or substantially similar to the compensation level in effect at the end of the employment period, then such NEO may resign from employment and would receive continuation of salary and health benefits for twelve months, except for the CEO who would receive the same for twenty-four months, plus a pro-rated bonus for the year of termination.

If a NEO's employment is terminated by death or disability, the NEO would receive a pro-rated bonus for the year of termination. Under the employment agreements, the Company would not be obligated to make any cash payments if employment were terminated by the Company for cause or by the NEO not for good reason. Additionally, if the NEO's employment is terminated due to death, the non-vested portions of stock options, service-based RSUs and PSUs would immediately vest.

Severance payments to the NEOs are conditioned upon the release of claims by the NEO in favor of the Company. Each of the NEOs entered into a separate restrictive agreement that prohibits each from competing with the Company for a period of one year after the termination of his employment with the Company for any reason and from hiring or attempting to hire the Company's employees or soliciting customers or suppliers of the Company for a period ending eighteen months following the termination of his employment for any reason. Each of the NEOs is entitled to receive his base salary for the period during which the Company enforces the non-competition provisions of the agreement but not for more than one year following termination of his employment.

Executive Compensation Tables

The following table provides information regarding compensation and benefits that would be payable to our NEOs as of December 31, 2019, upon an Involuntary Termination absent a change in control and preceded by a change in control and upon terminations in other circumstances. The incentive plan severance was calculated using the actual amount awarded under the 2019 AIP. There can be no assurance that the event triggering payments would produce the same or similar results as those described below if such event occurs on any other date or at any other price, or if any other assumption used to estimate the potential payments and benefits is incorrect. Any actual payments and benefits may be different due to a number of factors that affect the nature and amount of any potential payments or benefits.

Name	Benefit	Termination Without Cause or For Good Reason (\$)	Termination Without Cause or For Good Reason Following a Change in Control (\$)	Termination following Death (\$)	Termination following Disability (\$)	Termination following Non-Renewal (\$)
Valentin P. Gapontsev	Salary Severance and Benefits Continuation	2,835,542	2,835,542	—	—	1,890,361
	Incentive Plan Severance	255,750	2,478,600	255,750	255,750	255,750
	Equity Acceleration	—	—	—	—	—
	Total	3,091,292	5,314,142	255,750	255,750	2,146,111
Eugene A. Scherbakov	Salary Severance and Benefits Continuation	933,209	1,244,278	—	—	622,139
	Incentive Plan Severance	169,850	1,020,020	169,850	169,850	169,850
	Equity Acceleration ⁽¹⁾	4,385,255	12,013,451	12,013,451	12,013,451	—
	Total	5,488,314	14,277,749	12,183,301	12,183,301	791,989
Timothy P.V. Mammen	Salary Severance and Benefits Continuation	755,952	1,007,936	—	—	503,968
	Incentive Plan Severance	96,240	687,533	96,240	96,240	96,240
	Equity Acceleration ⁽¹⁾	3,878,458	7,905,328	7,905,328	7,905,328	—
	Total	4,730,650	9,600,798	8,001,568	8,001,568	600,208
Angelo P. Lopresti	Salary Severance and Benefits Continuation	663,150	884,200	—	—	442,100
	Incentive Plan Severance	88,420	631,633	88,420	88,420	88,420
	Equity Acceleration ⁽¹⁾	3,090,177	6,538,817	6,538,817	6,538,817	—
	Total	3,841,747	8,054,651	6,627,237	6,627,237	530,520
Alexander Ovtchinnikov	Salary Severance and Benefits Continuation	677,430	903,204	—	—	451,602
	Incentive Plan Severance	87,620	594,567	87,620	87,620	87,620
	Equity Acceleration ⁽¹⁾	3,210,678	6,664,322	6,664,322	6,664,322	—
	Total	3,975,702	8,162,093	6,751,942	6,751,942	539,222

⁽¹⁾ Equity acceleration is calculated at the full value of service-based RSUs and PSUs. Also, PSUs are presented at the maximum possible amount of shares. Values use the closing common stock price on December 31, 2019, of \$144.92 per share and the aggregate difference between the exercise prices of outstanding stock options and the closing common stock price on December 31, 2019.

CEO Pay Ratio

As required by Section 953(b) of the Dodd-Frank Wall Street Reform and Consumer Protection Act and Item 402(u) of Regulation S-K, we are providing the following information on the relationship of the annual total compensation of our employees and the annual total compensation of Dr. Valentin P. Gapontsev, our CEO.

Determining our Median Employee: As permitted by SEC rules, because there has been no change in our employee population or employee compensation arrangements that we believe would significantly impact the pay ratio disclosure, the Company determined to use the same median employee in our pay ratio calculation as was used in the proxy statement for the 2018 and 2019 annual meeting of stockholders. However, the median employee used in the proxy statement for the 2018 and 2019 annual meeting of stockholders terminated employment with the Company in 2019. Therefore, as permitted under SEC rules, the Company identified an alternate median employee with comparable pay as the median employee in 2018 for this Proxy Statement.

Calculating the Pay Ratio: As required by the SEC rules, we calculated our median employee's total annual compensation in accordance with the requirements of Item 402(c)(2)(x) of Regulation S-K (which is the calculation method for reporting CEO compensation in the Summary Compensation Table).

The total compensation of our median employee was \$31,205. Our CEO's total compensation as reported in the Summary Compensation Table for 2019 was \$1,251,984. Therefore, our CEO to median employee pay ratio in 2019 was approximately 40.1:1.

The pay ratio included in this information is a reasonable estimate calculated in a manner consistent with rules promulgated by the SEC. This information is being provided solely for compliance purposes. The Compensation Committee does not consider this ratio when evaluating compensation arrangements.

Proposal

3

Ratify Deloitte & Touche LLP as Our Independent Registered Public Accounting Firm for 2020

Deloitte & Touche LLP currently serves as our independent registered public accounting firm and audited our consolidated financial statements for the year ended December 31, 2019. Our Audit Committee has appointed Deloitte & Touche LLP to serve as our independent registered public accounting firm for 2020, and to conduct an integrated audit of our consolidated financial statements for the year ending December 31, 2020 and of our internal control over financial reporting as of December 31, 2020. Deloitte & Touche LLP has served as the Company's auditor since 1999. A representative of Deloitte & Touche LLP will attend the Annual Meeting where he or she will have the opportunity to make a statement, if he or she desires, and will be available to respond to appropriate stockholder questions.

The Audit Committee is solely responsible for the appointment, retention, termination and oversight of the work of our independent registered public accounting firm, including the approval of all engagement fees, terms, and the annual audit plan. In determining whether to reappoint Deloitte & Touche LLP as the Company's independent external auditor, the Audit Committee took into consideration several factors, including an assessment of the professional qualifications and past performance of the lead audit partner and the Deloitte & Touche LLP team, the quality and level of transparency of the Audit Committee's relationship and communications with Deloitte & Touche LLP. The Audit Committee considered, among other things, the knowledge and skills of Deloitte & Touche LLP's auditing experts that would be providing services to the Company, international scope and knowledge of the Company and its operations. After its assessment, the Audit Committee concluded that the best course of action was to reappoint Deloitte & Touche LLP as the Company's independent external auditor for 2020. Lead and concurring audit partners are subject to rotation requirements that limit the number of consecutive years an individual partner may provide services. The maximum number of consecutive years of service in that capacity is five years and 2024 is a year of lead audit partner rotation. The process for rotation of the Company's lead audit partner involves an inquiry into the backgrounds and experiences of several potential lead partners, a narrowing of the list to one or more, a meeting between the candidate or candidates for the role with the Chair of the Audit Committee, as well as with management. This is accompanied by several discussions with and a final approval by the entire Audit Committee. The Company and Audit Committee followed this process in the 2019 selection of the lead audit partner from Deloitte & Touche LLP.

Fees Paid to Deloitte & Touche. The fees for services provided by Deloitte & Touche LLP, member firm of Deloitte Touche Tohmatsu, and their respective affiliates, to the Company were:

Fee Category	Fees	
	2019	2018
Audit fees	\$ 2,440,990	\$ 2,051,757
Audit-related fees	—	170,470
Tax fees	90,000	111,000
All other fees	—	—
Total Fees	\$ 2,530,990	\$ 2,333,227

Audit fees. These fees comprise fees for professional services rendered in connection with the audit of the Company's consolidated financial statements that are customary under auditing standards generally accepted in the United States. Audit fees also include fees for consents and reviews related to SEC filings and quarterly services with respect to the preparation of our unaudited quarterly financial statements. The increase in audit fees relates to increases in audit hours and audit scope related to acquired companies and increases in hourly rates.

Audit-related fees. These fees comprise fees for services that are reasonably related to the performance of the audit or review of the Company's financial statements.

Proposal 3 Ratify Deloitte & Touche LLP as Our Independent Registered Public Accounting Firm for 2020

Tax fees. Fees for tax services consist of fees for tax compliance services and tax planning and advice services. Tax compliance services are services rendered based upon facts already in existence or transactions that have already occurred to document, compute and obtain government approval for amounts to be included in tax filings. Tax planning and advice are services rendered with respect to proposed transactions or that alter a transaction to obtain a particular tax result.

All other fees. These are fees for any services not included in the other three categories.

Policy on Pre-Approval of Audit and Permissible Non-Audit Services. The Audit Committee pre-approves all audit and permissible non-audit services provided by the independent registered public accounting firm. These services may include audit services, audit-related services and tax services as well as specifically designated non-audit services that, in the opinion of the Audit Committee, will not impair the independence of the independent registered public accounting firm. Pre-approval is generally provided for each fiscal year, and any pre-approval is detailed as to the particular service or category of services and is generally subject to a specific budget. The independent registered public accounting firm and our management are required to periodically report to the Audit Committee regarding the extent of services provided by the independent registered public accounting firm in accordance with the pre-approval, including the fees for the services performed to date. In addition, the Audit Committee also may pre-approve particular services on a case-by-case basis, as required.

Our Audit Committee is solely responsible for selecting and appointing our independent registered public accounting firm, and this appointment is not required to be ratified by our stockholders. However, our Audit Committee has recommended that the Board submit this matter to the stockholders in a non-binding advisory vote as a matter of good corporate practice. If the stockholders fail to ratify the appointment, the Audit Committee will reconsider whether to retain Deloitte & Touche LLP, and may retain that firm or another without re-submitting the matter to our stockholders. Even if the appointment is ratified, the Audit Committee may, in its discretion, direct the appointment of a different independent registered public accounting firm at any time during the year if it determines that such a change would be in the best interests of the Company and our stockholders.

Our Board of Directors Recommends a vote **FOR** ratification of Deloitte & Touche LLP as our independent registered public accounting firm for 2020.

Audit Committee Report

The primary role of the Audit Committee is to assist the Board in fulfilling its oversight responsibilities by reviewing the financial information proposed to be provided to stockholders and others, the adequacy of the system of internal control over financial reporting and disclosure controls and procedures established by management and the Board, and the audit process and the independent registered public accounting firm's qualifications, independence and performance.

Management has primary responsibility for the financial statements and is responsible for establishing and maintaining the Company's system of internal controls over preparation of the Company's financial statements. The Company's independent registered public accounting firm, Deloitte & Touche LLP, is responsible for performing an integrated audit of the Company's consolidated financial statements and the effectiveness of internal controls over financial reporting in accordance with standards of the Public Company Accounting Oversight Board (United States) ("PCAOB") and issuing an opinion on the financial statements and the effectiveness of internal controls over financial reporting. The Audit Committee also employs an international auditing firm to conduct internal audits throughout the Company of various financial, operational and information technology areas as selected each year by the Audit Committee. The Audit Committee periodically met and held separate discussions with the internal auditors and the Company's independent registered public accounting firm, with and without management present, to review the adequacy of the Company's internal controls, financial reporting practices and audit process.

The Audit Committee has reviewed and discussed the Company's audited consolidated financial statements for the year ended December 31, 2019 with management. In addition, the Audit Committee has discussed with Deloitte & Touche LLP the matters required to be discussed by the applicable requirements of the PCAOB and the SEC.

The Audit Committee also has received the written disclosures and the letter from Deloitte & Touche LLP required by the applicable requirements of the PCAOB regarding the independent registered public accounting firm's communications with the Audit Committee concerning independence, and the Audit Committee has discussed the independence of Deloitte & Touche LLP with that firm. The Audit Committee also has considered whether Deloitte & Touche LLP's provision of non-attest services to the Company is compatible with maintaining the auditors' independence.

Based on the above-mentioned reviews and discussions, the Audit Committee recommended to the Board that the Company's audited consolidated financial statements be included in its Annual Report on Form 10-K for the year ended December 31, 2019, as filed with the SEC.

AUDIT COMMITTEE

Thomas J. Seifert, *Chair*
Gregory P. Dougherty
Henry E. Gauthier
Catherine P. Lego

March 18, 2020

The information in the Audit Committee Report shall not be considered "soliciting material" or "filed" with the SEC, nor shall this information be incorporated by reference into any previous or future filings under the Securities Act of 1933, as amended, or the Securities Exchange Act of 1934, as amended, except to the extent that the Company incorporated it by specific reference.

Stockholder Proposal to Prepare a Report on Management Team Diversity

The Company has received notice of the intention of a stockholder to present a proposal for voting at the Annual Meeting. The text of the stockholder proposal and supporting statement appear below exactly as received by the Company. All statements contained in the stockholder proposal and supporting statement are the sole responsibility of the proponent of the stockholder proposal. The Company will provide the name, address and stockholdings (to the Company's knowledge) of the proponent upon request made to Office of the Secretary, IPG Photonics Corporation, 50 Old Webster Road, Oxford, Massachusetts 01540 or by calling (508) 373-1100.

If the proponents of this proposal, or representatives who are qualified under state law, are present at our annual meeting and submit the proposal for a vote, then the proposal will be voted upon.

Beginning of Stockholder Proposal and Statement of Support:

Stockholder Proposal regarding a Report on Diversity in Executive Leadership

WHEREAS:

We believe that diversity, inclusive of gender and race, are critical attributes of a well-functioning executive team and necessary to meaningfully drive diversity throughout an organization.

Currently, IPG Photonics management team has no woman and an undeterminable number of people of color.

The business case for workforce diversity is compelling. McKinsey & Company, found in 2015, and in a larger 2017 study that highly diverse executive teams had higher returns on equity and earnings performance than those with low diversity. ISS Analytics examined companies where the CEO had a tenure of at least three years and found companies that combined gender diversity in the boardroom and the C-Suite showed, overall, the best results in terms of risk-adjusted quality of performance. (ISS Analytics/Governance Insights/October, 2018)

Yet, the number of women and people of color in leadership roles remains low. Nine percent of top executive roles in the Russell 3000 are held by women. Among S&P500 companies women comprise 44.7 percent of all employees yet just 26.5 percent of executives, senior officials and managers. Women of color face a wider gap.

Companies across industries are setting goals to address this significant issue. Intel has been tracking diversity data since 2014 and ties diversity goals to incentive compensation. In 2018, two years ahead of schedule, Intel achieved full representation of underrepresented minorities and women in its U.S. workforce. Symantec set a goal to increase the percentage of women in leadership (Director-level and above) to thirty percent by 2020. Citigroup, in 2018, announced plans to reverse "falling diversity" by setting public quantitative goals and holding senior leaders accountable for meeting them.

IPG Photonics has strengthened diversity on its board of directors. It is time to extend focus and accountability to building diversity in its leadership ranks.

To address the lack of diversity in senior roles we believe the Board must set clear policies to attract, retain and promote women and people of color, including reporting on gender pay equity, establishing sponsorship programs, and family support programs.

Further, we believe that linking diversity performance metrics to senior executive compensation packages can sharpen management's ability to manage human capital risks, increase accountability and successfully reach inclusion and diversity goals.

RESOLVED: Shareholders request that the Board of Directors prepare a report (at a reasonable cost, in a reasonable time, and omitting confidential information) providing its assessment of the current state of its management team diversity and if and how it plans to make the Company's management team more diverse in terms of race, ethnicity, and gender.

Supporting Statement: A report adequate for investors to assess IPG Photonics' strategy and performance could include disclosures such as use of "Rooney Rule" practices when interviewing for open positions, and hiring and promotion rates of women and people of color across employment.

End of Stockholder Proposal and Statement of Support

Proposal 4 Stockholder Proposal

BOARD OF DIRECTORS STATEMENT IN OPPOSITION

The Board of Directors carefully considered the stockholder proposal and does not believe that the proposal is in the best interests of the Company or its stockholders for the reasons below.

The Company and its leadership have a long-standing commitment to diversity, inclusion and advancement. We believe that we are made better and stronger by having a diverse and inclusive workforce shaping our business choices, and we are culturally enriched by having the unique perspectives of people of all backgrounds.

The Board acknowledges the benefits of diversity throughout the Company, including its management team. Our Company has been fortunate to not experience impactful senior management turnover. Despite this, we have made strides to increase diversity in manager positions below our upper management, building internal resources for potential future executive openings. For example, women and minorities comprise over 40% of our global management below the executive level. In addition, we have increased diversity exceeding our recent affirmative action plans.

Even in the midst of unprecedented trade uncertainties and competitive challenges facing the Company in 2018 and 2019, we have taken a number of actions to promote our diversity and inclusion initiatives, including the following:

- Our executive team has made improvements in making our hiring and promotion of women and minorities a priority and correspondingly the Company has attained improvement in its diversity.
- The Company has been subject to two audits of the Office of Federal Contract Compliance Programs (A federal government office monitoring employment discrimination at government contractors), without any adverse findings.
- We recruit and develop candidates for available leadership and other positions at the Company identifying persons from diverse backgrounds and with a variety of life experiences, including posting on national and local diversity job boards as well as partnerships with organizations, community groups and colleges that focus on the needs of minority candidates.
- We annually send letters to our recruiters informing them of our commitment to recruit and draw from diverse pool of applicants including women and minority candidates.
- We actively recruit at universities having higher than average populations of women and minorities in STEM (science, technology, engineering and math) related programs. Also, we support our female engineering employees in attending conferences of their peers and sponsor a female development program at a local college.
- We maintain a "Diversity & Inclusion" microsite on our website, available under the "Our People and Communities" link on the "Our Company" page of our website, which provides potential candidates with insight into our diversity and inclusiveness initiatives as well as a view into our diverse and inclusive culture and workforce.
- We focus on identifying persons from diverse backgrounds, skills and with a variety of life experiences as candidates for our Board as promoted by our director membership guidelines.
- We support our diverse workforce and our commitment to an equal opportunity for all employees through a variety of methods, including a confidential ethics hotline, which promotes reporting of concerns regarding conduct that violates our Code of Business Conduct.

In summary, the Company remains fully committed to our ongoing efforts to promote diversity and foster an inclusive environment for all employees throughout the Company, but we do not believe that this stockholder proposal would advance those goals, nor do we believe that the reporting obligations expected in the stockholder proposal would provide a demonstrated benefit to our stockholders.

The Board of Directors unanimously recommends that you vote **AGAINST** this proposal.

Common Stock Ownership

The following table provides information about the beneficial ownership of our common stock as of April 1, 2020 by:

- each NEO,
- each person who is a director or nominee,
- all executive officers and directors as a group and
- each person or entity known by us to own beneficially more than five percent of our common stock.

Percentage of beneficial ownership is based on 53,142,181 shares of common stock outstanding as of April 1, 2020.

Named Executive Officers and Directors ⁽¹⁾	Shares Owned	Right to Acquire Shares within 60 Days	Total Beneficial Ownership ⁽²⁾	Percent
Michael C. Child⁽³⁾	27,033	44,876	71,909	*
Gregory P. Dougherty	807	3,907	4,714	*
Valentin P. Gapontsev⁽⁴⁾	7,397,642	—	7,397,642	13.9%
Henry E. Gauthier	15,754	11,875	27,629	*
Catherine P. Lego	7,094	12,999	20,093	*
Angelo P. Lopresti⁽⁵⁾	16,223,703	55,188	16,278,891	30.6%
Timothy P.V. Mammen	35,014	48,702	83,716	*
Eric Meurice	8,268	21,298	29,566	*
Alexander Ovtchinnikov⁽⁵⁾	16,260,514	34,629	16,295,143	30.6%
John R. Peeler	7,654	24,875	32,529	*
Igor Samartsev⁽⁶⁾⁽⁷⁾	928,066	17,788	945,854	1.8%
Eugene Scherbakov⁽⁵⁾⁽⁶⁾	16,203,874	54,542	16,258,416	30.6%
Thomas J. Seifert	6,981	8,974	15,955	*
All executive officers and directors as a group (15 persons)	17,766,928	422,018	18,188,946	34.0%
Other >5% Stockholders				
Valentin Gapontsev Trust I ⁽¹⁾⁽²⁾⁽⁸⁾	14,542,004	—	14,542,004	27.4%
IP Fibre Devices (UK) Ltd. ⁽¹⁾⁽²⁾⁽⁹⁾	7,014,004	—	7,014,004	13.2%
The Vanguard Group ⁽¹⁰⁾	3,867,440	—	3,867,440	7.3%

* Less than 1.0%

(1) The contact address for each person or entity is in care of IPG Photonics Corporation, 50 Old Webster Road, Oxford, Massachusetts 01540.

(2) In accordance with SEC rules, beneficial ownership includes any shares for which a person or entity has sole or shared voting power or investment power and any shares for which the person or entity has the right to acquire beneficial ownership within 60 days after April 1, 2020 through the exercise of any option or the vesting of a RSU or a PSU.

(3) Includes 4,912 shares held in the name of Jewell Partners LLC, in which Mr. Child is partial owner and Managing Member.

(4) Includes 7,014,004 shares beneficially owned by IP Fibre Devices (UK) Ltd. ("IPFD"), of which Dr. Gapontsev is the sole managing director. Dr. Gapontsev has sole voting and investment power with respect to the shares held of record by IPFD and has a 3% economic interest in IPFD. See note 9 below.

(5) Includes (a) 7,528,000 shares owned of record by Valentin Gapontsev Trust I ("Gapontsev Trust I"), (b) 7,014,004 shares owned of record by IPFD which may be deemed to be beneficially owned by Gapontsev Trust I (see notes 8 and 9 below), (c) 692,691 shares beneficially owned by Valentin Gapontsev Trust II ("Gapontsev Trust II"), and (d) 950,250 shares beneficially owned by Valentin Gapontsev Trust III ("Gapontsev Trust III"), because such person is a trustee of each trust. Gapontsev Trust I, Gapontsev Trust II and Gapontsev Trust III were formed by CEO Valentin Gapontsev.

Common Stock Ownership

- (6) Each such person has an 8% economic interest in IPFD but does not possess voting or investment power with respect to such interest. Each such person disclaims beneficial ownership of the shares held by IPFD except to the extent of his economic interest therein. See note 9 below.
- (7) Includes 566,450 shares held by the spouse of Mr. Samartsev and family trusts formed by her and 10,000 shares held by the mother of Mr. Samartsev's spouse. Mr. Samartsev disclaims beneficial ownership of such shares.
- (8) Includes 7,014,004 shares beneficially owned by IPFD, in which Gapontsev Trust I has a 48% economic interest. Gapontsev Trust I disclaims beneficial ownership of the shares held by IPFD except to the extent of its economic interest therein. See note 9 below.
- (9) Dr. Gapontsev has sole voting and investment power with respect to the shares held of record by IPFD. The following officers and directors of the Company or related parties have economic interests in IPFD: Gapontsev Trust I (48%), Dr. Gapontsev (3%), Mr. Samartsev (8%), Dr. Scherbakov (8%) and Gapontsev Trust III (2%). Each such person and entity (other than Dr. Gapontsev) does not possess voting or investment power with respect to such interest and each disclaims beneficial ownership of the shares held by IPFD except to the extent of his or its economic interest therein.
- (10) The address of The Vanguard Group is 100 Vanguard Boulevard, Malvern, PA 19355. Based solely on a Schedule 13G/A filed with the SEC on February 12, 2020.

Questions and Answers About the Meeting and Voting

When and Where Is the Annual Meeting?

WHEN:

Thursday, May 28, 2020, at 10:00 a.m. Eastern Time

WHERE:

IPG Photonics Corporation
50 Old Webster Road
Oxford, Massachusetts 01540

What is the Impact of COVID-19 on the Annual Meeting?

Circumstances are changing rapidly. We currently intend to hold the Annual Meeting in person. We are monitoring coronavirus (COVID-19) developments and the related recommendations and protocols issued by public health authorities and federal, state, and local governments. If we determine that alternative Annual Meeting arrangements are advisable or required, which may include switching to a virtual meeting format, or changing the time, date or location of the Annual Meeting, then we will announce our decision via press release and the filing of additional proxy materials with the SEC. Please monitor our investor website at investor.ipgphotonics.com in advance of the Annual Meeting date if you are planning to attend in person. Please note that: (i) we will not be serving food and drink as we had in past years and (ii) we do not intend to have a presentation concerning the results from 2019.

What is the Purpose of These Materials?

The Board is soliciting proxies from our stockholders in connection with our annual meeting of stockholders to be held on Thursday, May 28, 2020 and any and all adjournments thereof. This Proxy Statement and our Annual Report are first being made available to stockholders of record on or about April 9, 2020 at investor.ipgphotonics.com. Information on the website does not constitute part of this Proxy Statement. Unless otherwise noted, the information in this Proxy Statement covers our 2019 fiscal year, which ran from January 1, 2019 through December 31, 2019.

What Matters Am I Being Asked to Vote On at the Meeting and What Vote is Required to Approve Each Matter?

You are being asked to vote on four proposals.

Proposal 1 requests the election of directors named in this Proxy Statement. Our bylaws require that, in uncontested elections, each director be elected by the majority of votes cast with respect to such director. This means that the number of shares voted "for" a director nominee must exceed the number of votes cast "against" that nominee in order for that nominee to be elected. Only votes "for" or "against" are counted as votes cast with respect to a director. Abstentions and broker non-votes (as defined below) will have no effect on Proposal 1. To be elected in a "contested election" of directors, which our bylaws define as an election in which the number of nominees for director is greater than the number of directors to be elected, as determined as of the tenth day preceding the date the Company first mails its notice of meeting to stockholders, a director nominee must receive a plurality of the votes cast. The election of directors at the Annual Meeting is an uncontested election.

Proposal 2 requests the approval of our executive compensation. Proposal 2 is an advisory vote, which means that it is not binding on the Company.

Proposal 3 requests the ratification of the appointment of our independent registered public accounting firm for 2020.

Proposal 4 is a stockholder proposal, if properly presented at the meeting.

The affirmative vote of the holders of a majority of the outstanding shares which are present at the meeting in person or by proxy, and entitled to vote thereon, is required for approval of Proposals 2, 3 and 4. Abstentions have the same effect as voting against Proposals 2, 3 and 4. Broker non-votes have no effect on Proposals 2 and 4. Because Proposal 3 is considered a "routine" matter, broker non-votes are not expected to occur with respect to this Proposal.

No business can be conducted at the Annual Meeting unless a majority of all outstanding shares entitled to vote are either present in person or represented by proxy at the meeting. As far as we know, the only matters to be brought before the Annual Meeting are those referred to in this Proxy Statement. If any additional matters are presented at the Annual Meeting, the persons named as proxies may vote your shares in their discretion.

What Happens if a Director Nominee Fails to Receive a Majority Vote in an Uncontested Election at the Annual Meeting?

If a nominee who currently is serving as a director does not receive the affirmative vote of at least a majority of the votes cast in an uncontested election, Delaware law provides that the director would continue to serve on the Board as a “holdover director.” However, under our bylaws, each incumbent director is required to submit a letter of resignation as a condition of becoming a nominee of the Board, with the resignation contingent upon not receiving a majority of the votes cast in an uncontested election and acceptance of the resignation by the Board. In such event, the NCGC (or another committee designated by the Board) would make a recommendation to the Board as to whether to accept or reject the tendered resignation, or whether other action should be taken. The Board would act on the tendered resignation, taking into account the committee’s recommendation, and would publicly disclose its decision regarding the resignation within 90 days after the results of the election are certified. If the resignation is not accepted, the director would continue to serve until the next annual meeting of stockholders and until the director’s successor is elected and qualified.

Who Is Entitled to Vote at the Annual Meeting?

You are entitled to vote at the Annual Meeting if you owned shares of IPG (directly or in “street name,” as defined below) as of the close of business on April 1, 2020, the record date for the Annual Meeting. On that date, 53,142,181 shares of our common stock were outstanding and entitled to vote and no shares of our preferred stock were outstanding. Each share of our common stock is entitled to one vote with respect to each matter on which it is entitled to vote. There is no cumulative voting with respect to any proposal.

What Do I Need to Do If I Plan to Attend the Annual Meeting in Person?

If you plan to attend the Annual Meeting in person, you must provide proof of your ownership of our common stock and a form of personal identification, such as a driver’s license, for admission to the Annual Meeting. If you are a stockholder of record, the top half of your proxy card is your admission ticket and will serve as proof of ownership. If you hold your shares in street name, a recent brokerage statement or a letter from your bank or broker are examples of proof of ownership. If you hold your shares in street name and you also wish to be able to vote at the Annual Meeting, you must obtain a proxy, executed in your favor, from your bank or broker.

What Is the Difference Between Holding Shares Directly as a Stockholder of Record and Holding Shares in “Street Name” at a Bank or Broker?

Most of our stockholders hold their shares directly through a broker, bank or other nominee rather than directly in their own name. As summarized below, there are differences between shares held of record and those held in “street name.”

Stockholder of Record: If your shares are registered directly in your name with our transfer agent, Computershare, N.A., you are considered the stockholder of record with respect to those shares, and the Proxy Statement and Annual Report were sent directly to you. As the stockholder of record, you have the right to vote your shares as described herein.

“Street Name” Stockholder: If your shares are held by a bank, broker or other nominee on your behalf, you are considered the beneficial owner of shares held in “street name,” and the Proxy Statement and Annual Report were forwarded to you by your bank, broker or other nominee who is considered the stockholder of record with respect to those shares. Your bank, broker or other nominee sent to you, as the beneficial owner, a document describing the procedure for voting your shares. You should follow the instructions provided by your bank, broker or other nominee to vote your shares. You are also invited to attend the Annual Meeting. However, if you wish to be able to vote at the meeting, you must obtain a proxy card, executed in your favor, from your bank, broker or other nominee.

What Does it Mean to Give a Proxy?

Your properly completed proxy/voting instruction card will appoint Valentin P. Gapontsev and Angelo P. Lopresti as proxy holders or your representatives to vote your shares in the manner directed therein by you. Dr. Gapontsev is our Chairman of the Board and CEO. Mr. Lopresti is our Senior Vice President, General Counsel and Secretary. Your proxy permits you to direct the proxy holders to vote “For,” “Against,” or “Abstain” for each of the proposals included in this Proxy Statement.

All of your shares entitled to vote and represented by a properly completed proxy or voting instruction received prior to the Annual Meeting and not revoked will be voted at the meeting in accordance with your instruction.

What Happens If I Sign, Date and Return My Proxy But Do Not Specify How I Want My Shares Voted on One of the Proposals?

Stockholder of Record: Your proxy will be counted as a vote “For” all of the nominees for director (Proposal 1), “For” the advisory approval of our executive compensation, “For” the ratification of the appointment of our independent registered accounting firm (Proposal 3) and “Against” the stockholder proposal (Proposal 4).

“Street Name” Stockholder: Your bank, broker or nominee may vote your shares only on those proposals on which it has discretion to vote. Under the rules of Nasdaq, your bank, broker or nominee does not have discretion to vote your shares on non-routine matters, such as the election of directors (Proposal 1), advisory approval of our executive compensation (Proposal 2) and the stockholder proposal (Proposal 4). This is called a “broker non-vote.” However, your bank, broker or nominee does have discretion to vote your shares on routine matters such as the vote to ratify the appointment of our independent registered public accounting firm (Proposal 3). Accordingly, if you do not give your bank, broker or nominee specific instructions with respect to Proposal 3, your shares will be voted in such entity’s discretion (but only with respect to Proposal 3). We urge you to promptly provide your bank, broker or nominee with appropriate voting instructions so that all of your shares may be voted at the Annual Meeting.

Can I Change My Vote Before the Annual Meeting?

You can change your vote at any time before your proxy is exercised by delivering a properly executed, later-dated proxy (including an Internet or telephone vote), by revoking your proxy by written notice to the Secretary of IPG, or by voting in person at the Annual Meeting. If you choose to revoke your proxy by attending the Annual Meeting, you must vote your shares for revocation to be effective. The method by which you vote by a proxy will in no way limit your right to vote at the meeting if you decide to attend in person.

If your shares are held in street name, please refer to the information forwarded by your bank, broker or nominee for procedures on changing your voting instructions.

Is the Proxy Statement Available on the Internet?

Yes. We are delivering this Proxy Statement and the Annual Report pursuant to the Securities and Exchange Commission rules that allow companies to furnish proxy materials to their stockholders over the Internet. On or about April 9, 2020, we will mail to our stockholders a notice (the “Notice”) containing instruction on how to access this Proxy Statement and the Annual Report and to vote via the Internet or by telephone. Stockholders can view these documents on the Internet by accessing the website at investor.ipgphotonics.com.

What Does it Mean If I Receive More Than One Notice of Internet Availability of Proxy Materials?

You may receive more than one Notice, more than one e-mail or multiple proxy cards or voting instruction cards. For example, if you hold your shares in more than one brokerage account, you may receive a separate Notice, a separate e-mail or a separate voting instruction card for each brokerage account in which you hold shares. If you are a stockholder of record and your shares are registered in more than one name, you may receive more than one Notice, more than one e-mail or more than one proxy card.

To vote all of your shares by proxy, you must complete, sign, date and return each proxy card and voting instruction card that you receive and vote over the Internet the shares represented by each Notice that you receive (unless you have requested and received a proxy card or voting instruction card for the shares represented by one or more of those Notices).

Who Is Soliciting My Proxy and Who is Paying for the Cost of This Proxy Solicitation?

The Board of IPG is soliciting your proxy to vote at the Annual Meeting. IPG will bear the expense of preparing, posting to the Internet, printing and mailing proxy materials, as well as the cost of any required solicitation. We may also reimburse banks, brokers and other custodians, nominees and fiduciaries for reasonable expenses incurred in forwarding proxy materials to beneficial owners of our stock and obtaining their proxies. In addition to the mailing of proxy materials, the solicitation of proxies may be made in person, by telephone, or by electronic communication by our directors, officers or employees, without additional compensation, on our behalf. We have also retained Innisfree M&A Incorporated, an independent proxy solicitation firm, to assist us in soliciting proxies. We will pay Innisfree M&A Incorporated a fee of up to \$15,000, plus reimbursement of certain out-of-pocket expenses for these services.

Questions and Answers About the Meeting and Voting

Who Counts the Votes?

We have engaged Computershare, N.A. as our independent agent to receive and tabulate stockholder votes. Computershare, N.A. will separately tabulate "For" and "Against" votes, abstentions and broker non-votes. Computershare, N.A. will also act as independent election inspector to certify the results, determine the existence of a quorum and the validity of proxies and ballots, and perform any other acts required under the General Corporation Law of Delaware.

How Can I Vote?

Most stockholders have a choice of voting in one of four ways:

- via the Internet,
- using a toll-free telephone number,
- completing a proxy/voting instruction card and mailing it in the postage-paid envelope provided or
- in person at the meeting.

The telephone and Internet voting facilities for stockholders of record will close at 1:00 a.m. Central Time on May 28, 2020. The Internet and telephone voting procedures are designed to authenticate stockholders by use of a control number and to allow you to confirm that your instructions have been properly recorded.

If you hold your shares in "street name," your bank, broker or other nominee will send you a separate package describing the procedures and options for voting your shares. Please read this information carefully. If you hold your shares in "street name," and wish to vote in person at the Annual Meeting, you must obtain a "legal proxy" from the organization that holds your shares. A legal proxy is a written document that will authorize you to vote your shares held in "street name" at the Annual Meeting. Please contact the organization that holds your shares for instructions regarding obtaining a legal proxy. You must bring a copy of the legal proxy to the Annual Meeting and ask for a ballot when you arrive.

What Is the Quorum Required to Transact Business?

At the close of business on April 1, 2020, the record date, there were 53,142,181 shares of our common stock outstanding. Our bylaws require that a majority of our common stock be represented, in person or by proxy, at the Annual Meeting in order to constitute the quorum we need to transact business at the meeting. We will count broker non-votes and proxies marked "abstain" as present in determining whether a quorum exists.

Additional Information

2021 Annual Meeting and Nominations

Stockholders may present proposals for action at a future meeting and nominations for director if they comply with applicable SEC rules and our bylaws. Proposals and director nominations must be received by our Secretary at IPG Photonics Corporation, 50 Old Webster Road, Oxford, Massachusetts 01540.

Matters for Inclusion in the Proxy Materials for the 2021 Annual Meeting of Stockholders. If you would like us to consider including a proposal in our proxy statement pursuant to Rule 14a-8 under the Exchange Act, it must be received by our Secretary on or before December 11, 2020.

Matters for Consideration at the 2021 Annual Meeting of Stockholders, but not for Inclusion in the Proxy Materials. If you would like to present a proposal at the 2021 annual meeting of stockholders, but not to have such proposal included in our proxy statement relating to that meeting, such proposal or nomination must be received by our Secretary not earlier than January 28, 2021 and not later than February 27, 2021.

Nominations of Individuals for Election as Directors at the 2021 Annual Meeting of Stockholders Using Proxy Access. A stockholder, or group of up to 20 stockholders, that has owned at least three percent of the Company's outstanding common stock continuously for at least three years through the dates specified in the Company's bylaws may nominate and include in the Company's annual meeting proxy materials director nominees constituting up to the greater of two director nominees or 20 percent of the number of directors up for election, provided that the stockholder(s) and nominee(s) satisfy the requirements in specified in our bylaws. Notice of proxy access director nominees must be received by our Secretary not earlier than November 11, 2020 and not later than December 11, 2020.

Nominations of Individuals for Election as Directors at the 2021 Annual Meeting of Stockholders, but not Included in the Proxy Materials. If you would like to nominate a director next year, but not to have such nominee included in our proxy statement relating to that meeting, such nomination must be received by our Secretary not earlier than January 28, 2021 and not later than February 27, 2021.

Additional Requirements. Our bylaws contain specific requirements regarding a stockholder's ability to nominate a director or to submit a proposal for consideration at an upcoming meeting. Our bylaws require that the notice to the Company include (i) information relating to the name, age and experience of the nominee and such other information concerning such nominee as would be required under the then-current rules of the SEC to be included in a proxy statement soliciting proxies for the election of the nominee, (ii) the nominee's written consent to being named in the proxy statement and serving as a director, if elected and (iii) the name and address of the record holder and beneficial holder of the shares, the number of shares held of record or beneficially owned, and representations and other undertakings by both the stockholder nominating a director and its nominee, as described in our bylaws. If the NCGC or the Board determines that any nomination made by a stockholder was not made in accordance with the Company's procedures, the rules and regulations of the SEC or other applicable laws or regulations, such nomination will be void. If you would like a copy of the requirements contained in our bylaws, please contact our Secretary.

No Incorporation by Reference

In our filings with the SEC, information is sometimes "incorporated by reference." This means that we are referring you to information that has previously been filed with the SEC and the information should be considered as part of the particular filing. As provided under SEC regulations, the Compensation Committee Report and the Audit Committee Report contained in this Proxy Statement specifically are not incorporated by reference into any of our other filings with the SEC, are not to be deemed soliciting materials or subject to the liabilities of Section 18 of the Exchange Act. In addition, this Proxy Statement includes several website addresses. These website addresses are intended to provide inactive, textual references only. The information on these websites is not part of this Proxy Statement.

Additional Information

Stockholders Sharing the Same Address

Under the rules adopted by the SEC, we may deliver a single set of proxy materials to one address shared by two or more of our stockholders. This delivery method is referred to as “householding”. This procedure reduces the environmental impact of our annual meeting and the costs of printing and mailing. To take advantage of this opportunity, we have delivered only one set of proxy materials to multiple stockholders who share an address, unless we received contrary instructions from the impacted stockholders prior to the mailing date. If you wish to receive a separate copy of the Proxy Statement and annual report or if you wish to receive separate copies of future annual reports and proxy statements, then call 877-373-6374.

If you hold your shares in “street name”, contact your bank or broker to request information about how to eliminate duplicate mailings.

EXHIBIT C

2020 Sustainability Report

[see attached]



2020 IPG Photonics Sustainability Report

THE POWER TO TRANSFORM Industries for a More Sustainable World



IPG PHOTONICS **AT A GLANCE**

IPG Photonics is the world leader in fiber laser technology, enabling greater precision, higher productivity and more flexible production for industrial applications and other diverse end markets. IPG fiber laser solutions transform the products that touch your life. Our global customers include original equipment manufacturers, system integrators and end users.

IPG has developed a robust vertically integrated supply chain producing key technology components in-house, enabling the most reliable, powerful and efficient laser solutions with rapid ongoing cost reduction.

Oxford, Massachusetts is home to IPG world headquarters. We have additional manufacturing facilities and offices in more than 30 locations around the world.

[IPG Photonics.com](https://www.ipgphotonics.com)

[IPG Investor Resource](#)

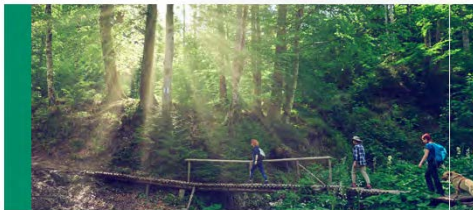


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OUR OPERATIONS

- Message from our CEO
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A MESSAGE FROM **OUR CEO**



Dear Stakeholders,

For the past 30 years, IPG Photonics has pioneered the development and commercial production of fiber lasers. Our unique technologies, vertically integrated business model, and expertise in deep materials science allow IPG to produce laser solutions of the highest quality and longevity in the world's smallest form factor. Our leading-edge laser technologies are transforming the way products are created in a number of industries including transportation, electronics, renewable energy, medical, communications and entertainment, thus improving the products that we use each day.

As the world leader in laser technology, IPG is committed to running an ethical and accountable business that prioritizes the concerns of its stakeholders. We recognize that the world is facing a series of unprecedented challenges and we are striving to utilize our innovative technologies to have a positive impact on society, especially as we support the health and safety of our employees, customers and communities during the COVID-19 pandemic.

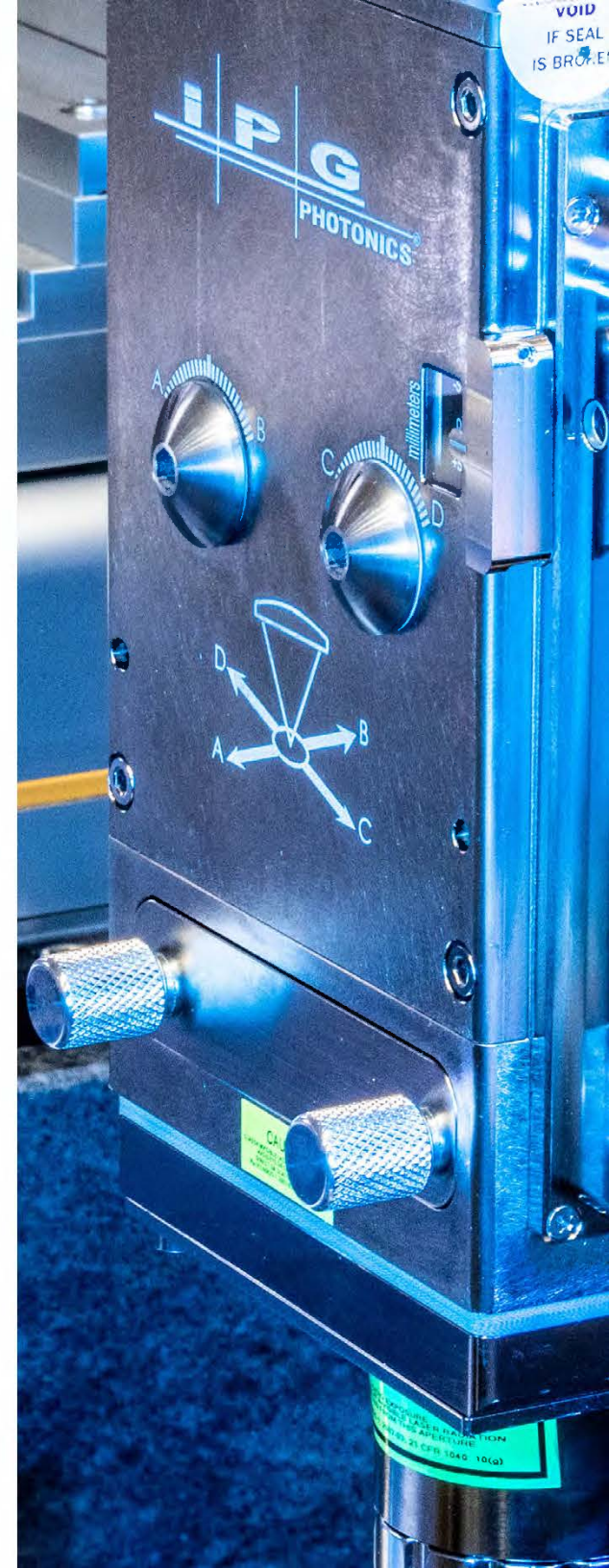
Our organization values transparency and sustainability. We strive to enhance disclosure methods to our stakeholders. Furthermore, we aim to deliver laser products to the market with greater power in smaller form factors, benefitting our customers and the planet with an ever increasing laser power to volume ratio. Our solutions support best practices, superior energy efficiency and are the longest lasting fiber lasers on the market. Moreover, IPG is actively conserving resources, reducing carbon emissions and promoting STEM education within multiple organizations.

Across the globe, IPG is dedicated to fostering a working environment that supports diversity and inclusion. Our employees are our most valuable asset and our finest innovations are a direct result of their collaboration and unique backgrounds. IPG has been a strong supporter of environmental, social and corporate governance practices since its inception. This communication is the first in a series of comprehensive reports documenting our sustainability efforts.

We at IPG appreciate all of our stakeholders and are committed to enhancing our sustainability initiatives. We are making great strides towards a more sustainable future through our focus on innovation and energy efficient technologies that continue to enable revolutionary new products that benefit society and the environment.

Valentin P. Gapontsev PhD

CEO and Chairman
December 2020



OUR PURPOSE

IPG Photonics is revolutionizing the laser industry as the pioneering developer and world's leading producer of fiber lasers and amplifiers. Our mission is to make fiber laser technology the tool of choice in mass production. Our products have displaced traditional technologies and are creating new laser applications every day. Our vertical integration approach to product manufacturing means that we produce most of the critical components and many others that go into our lasers, enabling IPG to better meet customer requirements, accelerate product development, drive down costs and dramatically lower our carbon footprint.

IPG products are disrupting the market by empowering tomorrow's applications today.

OUR VALUES

IPG operates around our three central pillars of corporate ethics: environment, governance and communities. IPG values our diverse and highly talented employees who allow us to develop new solutions and provide the best possible service to our global customer base. We are committed to providing our customers with laser solutions that are industry-leading in their performance, quality and efficiency. IPG is committed to being accountable and transparent when interacting with our customers, employees, suppliers and stockholders. We are dedicated to supporting local organizations and conducting business with the highest integrity.

2019 SNAPSHOT



1990
FOUNDED



Oxford, MA
HEADQUARTERS



NASDAQ
IPGP
STOCK TICKER



\$1.3
Billion
REVENUE



~6,000
EMPLOYEES



40,000
DEVICES
SHIPPED



20+
COUNTRIES



5,000+
CUSTOMERS
ACROSS 6 MAIN
INDUSTRIES

OUR OPERATIONS

DRIVING INNOVATION

Our high power fiber lasers enable greater precision, high speed processing, more flexible production methods and improved throughput. IPG fiber lasers provide superior performance and usability by combining the advantages of semiconductor diodes with high amplification and precise beam qualities delivered through our unique optical fibers.

IPG sells more than 60% of the fiber lasers purchased around the world. IPG has the broadest portfolio of fiber lasers that are industry-leading in their compactness, reliability, and low service cost. IPG has three main manufacturing facilities and more than 30 locations around the world. Our vertical integration business model, material processing expertise and 400 plus patents enable superior quality and competitive advantages.

ENVIRONMENTAL IMPACT AND RECYCLING

IPG pioneered high power fiber lasers for industrial applications. Fiber lasers are 5 to 20 times more energy efficient than other laser technologies such as CO₂ or Nd:YAG lasers and can often improve process speeds which multiplies customer energy savings. IPG supports the modern industrial era by manufacturing energy-efficient products that require less power from fossil fuels. Unlike gas and crystal lasers, the entirely solid-state optical architectures of our novel fiber lasers do not require consumables, such as gases, lamps and optical components. We warrant most lasers for three years. As industrial equipment, the useful lives of our products are longer than the warranty, in many cases up to ten years. We also provide service and maintenance to extend the lives of our products and prevent them from going to landfills due to our recycling programs.

IPG provides incentives for customers to return non-functioning pump modules, which contain packaged laser diodes and other optical components in a metal housing. We repair, refurbish or recycle pump modules depending upon their age and condition. IPG developed an extensive metal recovery program to reclaim a variety of materials and precious metals. Every year, IPG saves thousands of tons of materials including aluminum, copper, steel and mixed brass.

VERTICAL INTEGRATION REDUCING ENVIRONMENTAL IMPACTS

At IPG, we manufacture most principal components of our products in-house. These include advanced opto-electronic items ranging from semiconductor diodes, specialty optical fiber and components, fiber blocks, optical delivery cables, beam switches, process heads and circuit boards, to mechanical parts such as metal cabinets and heat sinks for our pump modules and electrical items like power supplies.

Our vertical integration produces substantial environmental benefits because our in-house supply chain reduces packaging usage and related waste as well as transportation emissions as compared to most other companies which source a substantial majority of components from remote third-party suppliers.



OUR PLANET

- Sustainability Vision
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- Greenhouse Gas Emissions
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- A Highly Efficient Energy System
- Architectural Efforts Toward Conservation



SUSTAINABILITY VISION

IPG Photonics values innovation, accountability and transparency, which is why we continually strive to advance our sustainability strategy to align with the fundamental principles of our stakeholders and local communities.

We integrate safety, reliability and sustainability fundamentals within our operations and product development initiatives. It is our responsibility to utilize our unique innovation capabilities in response to societal and environmental challenges.



IPG Photonics is a proud supporter of the United Nation's Sustainable Development Goals. The 17 Sustainable Development Goals (SDGs) were adopted by our global leaders in 2015 to act as a blueprint to help the world create a most sustainable future. IPG is excited to adhere to these international principles and is advancing our sustainability vision to align with the SDGs.



18 million metric tons less CO₂ emissions when operating IPG lasers compared to traditional lasers 2011-2019



35 terawatts hours of electricity savings since 2011



IPG fiber lasers are **>45%** energy efficient with efficiency and compactness improving each year



Charitable giving of **~\$1 million** since 2018



IPG recycled **1,100 metric tons** of metals since 2010

STAKEHOLDER ENGAGEMENT

IPG engages with key stakeholders to communicate our efforts to protect the planet and to secure a safe working environment. We also continue to evaluate the primary concerns of our employees, customers and stockholders to ensure that our sustainability strategy is consistently updated to prioritize industry-specific and global material issues.

Our executive management team and our Board of Directors are engaged in our sustainability strategy and influence the direction of our agenda. IPG recognizes the value of transparency and accountability to our various stakeholders. Our strategy was developed by working with the disclosure recommendations and guidelines of third-party frameworks which include the following:

- Global Reporting Initiative (GRI)
- Sustainable Development Goals (SDGs)

KEY STAKEHOLDERS

CUSTOMERS

IPG is dedicated to helping our customers grow their businesses through our innovative laser technology platform. Our history of providing record power-to-volume ratios across our portfolio increases customer flexibility while lowering the bar for adoption of environmentally-friendly laser solutions and helps us support their sustainability efforts.

EMPLOYEES

As an organization, we focus on attracting and retaining talent from diverse backgrounds and experiences. IPG is committed to conducting business with integrity and complying with laws and regulations in the locations where we operate.

STOCKHOLDERS

Our sustainability activities are inspired by the ideals and values of our stockholders. IPG promotes sustainable business practices to reduce operational risks, attract creative talent and advance our global strategy.

OUR SUSTAINABILITY TEAM

IPG employs a cross-functional team to manage our global sustainability program that analyzes economic, environmental and social topics. The team defines sustainability focus areas, organizes and standardizes our environmental, social and governance efforts, as well as conducts annual measurements and reports on key sustainability metrics.

OBJECTIVES

Develop our sustainability strategy and future sustainability goals

Disclose our sustainability metrics through third-party frameworks

Publish a sustainability report and integrate the values of our various stakeholders into our business strategy

TEAM MEMBERS

OUR SUSTAINABILITY TEAM CONSISTS OF:

- General Counsel
- Investor Relations
- Safety Specialists
- Manufacturing Managers
- Facilities Manager and Architects
- VP of HR
- Controllers
- Quality Assurance Manager
- Directors of Procurement
- Financial Analyst

FUTURE ACTIONS

Implement sustainability goals across our enterprise

Conduct a materiality assessment to identify risks and topics of concern from our customers, employees and stockholders

Investigate other organizations and disclosure frameworks

Identify and address opportunities to advance our sustainability agenda

SUSTAINABILITY **AGENDA**

IPG Photonics is focused on expanding our energy efficiency strategy across our enterprise. IPG is committed to decreasing our energy consumption, reducing our environmental footprint and supporting our customers' sustainability goals.

ENERGY

- IPG has continually reduced the energy consumption per kilowatt of laser power sold over the last ten years
- We invest in co- and tri-generation equipment, variable frequency drives, additional insulation, LED lighting and other technologies to update the efficiency and infrastructure of our manufacturing facilities
- IPG is investigating installing solar panels at a planned new building which could provide IPG with 1 MW of clean power every year

WASTE

- We continue to divert resources from landfills by increasing our recycling practices
- IPG is committed to investigating new opportunities to conserve resources and reuse materials

WATER

- IPG constructs its buildings with the most efficient plumbing equipment available to conserve water consumption
- IPG is committed to looking for ways to decrease water consumption

HIGHLIGHTS FROM **2019**



**Approximately
6 million
metric tons
of CO₂ saved**



**224 metric tons
of recycled metals**



**Water usage
decreased**
from 2017 to
168,000m³ despite
expanded output

FIBER LASERS & ELECTRICAL EFFICIENCY

The evolution of laser sources is similar to the evolution of lighting sources. Fiber lasers pioneered and perfected by IPG are the most advanced and efficient laser type. In addition, our lasers process materials more quickly than other laser technologies in many applications. Improved efficiency and productivity helps our customers with the environmental sustainability of their operations.

ND:YAG LASER

2% EFFICIENT

Lamp-pumped Nd:YAG lasers energy efficiency is approximately 2%, comparable to a traditional filament bulb. The remaining 98% of input energy is lost as heat. In a laser setting, this means that more electricity is needed to obtain the targeted optical output and to power chillers to dissipate the enormous amount of waste heat.



CO₂ LASER

7% TO 8% EFFICIENT

Although gas CO₂ lasers are 3-5 times more efficient than lamp-pumped Nd:YAG lasers, over 90% of input energy is lost as heat, similar to a fluorescent lamp. Chillers are also required to dissipate significant heat loss.



IPG FIBER LASER

35% TO 50% EFFICIENT

IPG fiber lasers efficiencies are comparable to modern diode light sources. Highly efficient diode pumping, proprietary laser architecture and high surface-to-volume ratio of the fiber all combine to dramatically reduce electrical power consumption and the cooling costs.



COMBATING CLIMATE CHANGE

IPG Photonics recognizes the immediacy of climate change and the importance of having a positive impact on the environment.

IPG Photonics fiber lasers are much more energy efficient than competing products, resulting in savings of multiple terawatt hours of electricity and reductions of millions of tons CO₂ each year. We are determined to support industries that are propelling the transition to a more ecologically sound world.

FIBER LASERS FOR **GREEN PRODUCTS**

IPG fiber lasers are essential for manufacturing products across numerous renewable energy sectors, including the production of photovoltaic cells. Of all renewable energy solutions, solar panels are anticipated to grow the fastest within the next 30 years. Fiber lasers are vital for advancing photovoltaic cell efficiency as well as decreasing manufacturing times and increasing yields.

IPG is committed to protecting the environment by fueling the renewable energy sector on their journey to instituting a low-carbon society.

Photovoltaic manufacturers benefit from IPG's extensive application knowledge and low cost fiber lasers. IPG green wavelength fiber lasers are critical to improving the efficiency of solar cells. These lasers, along with our near-infrared and ultraviolet fiber lasers, reduce photovoltaic manufacturing costs since laser-based processes are significantly more efficient, precise and faster than conventional processes due to high energy efficiency, excellent beam quality for tight process control and fast, high repetition rate energy pulses.

Advancing the production of solar panels and is an integral component of our strategy to help society lower fossil fuel usage and transition towards a future run on renewable energy sources.

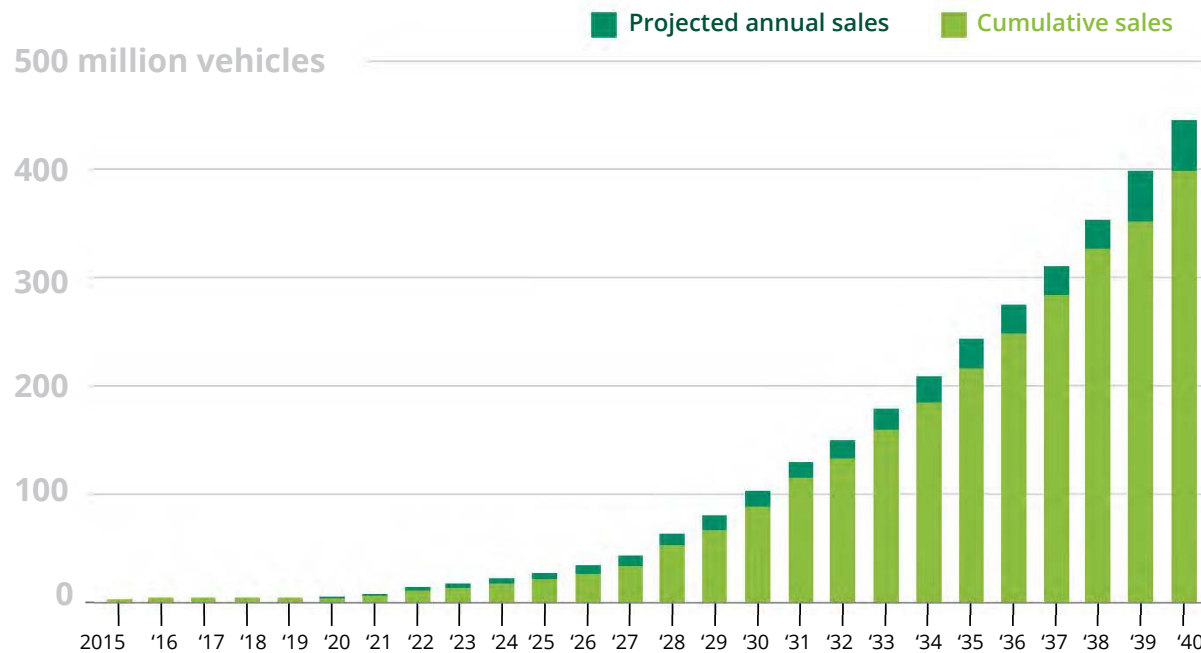


FIBER LASER FOR GREEN PRODUCTS

The biggest obstacle to worldwide mass adoption of electric vehicles (EV) is the high cost of automotive battery manufacturing. Fully automated IPG fiber laser welding solutions resolve challenges of EV battery welding quality and throughput. Fiber laser welding is more than 10x faster than traditional battery welding, forming millions of high quality welds, enabling mass production of millions of fuel cells per year at the lowest cost demanded by the consumer market.

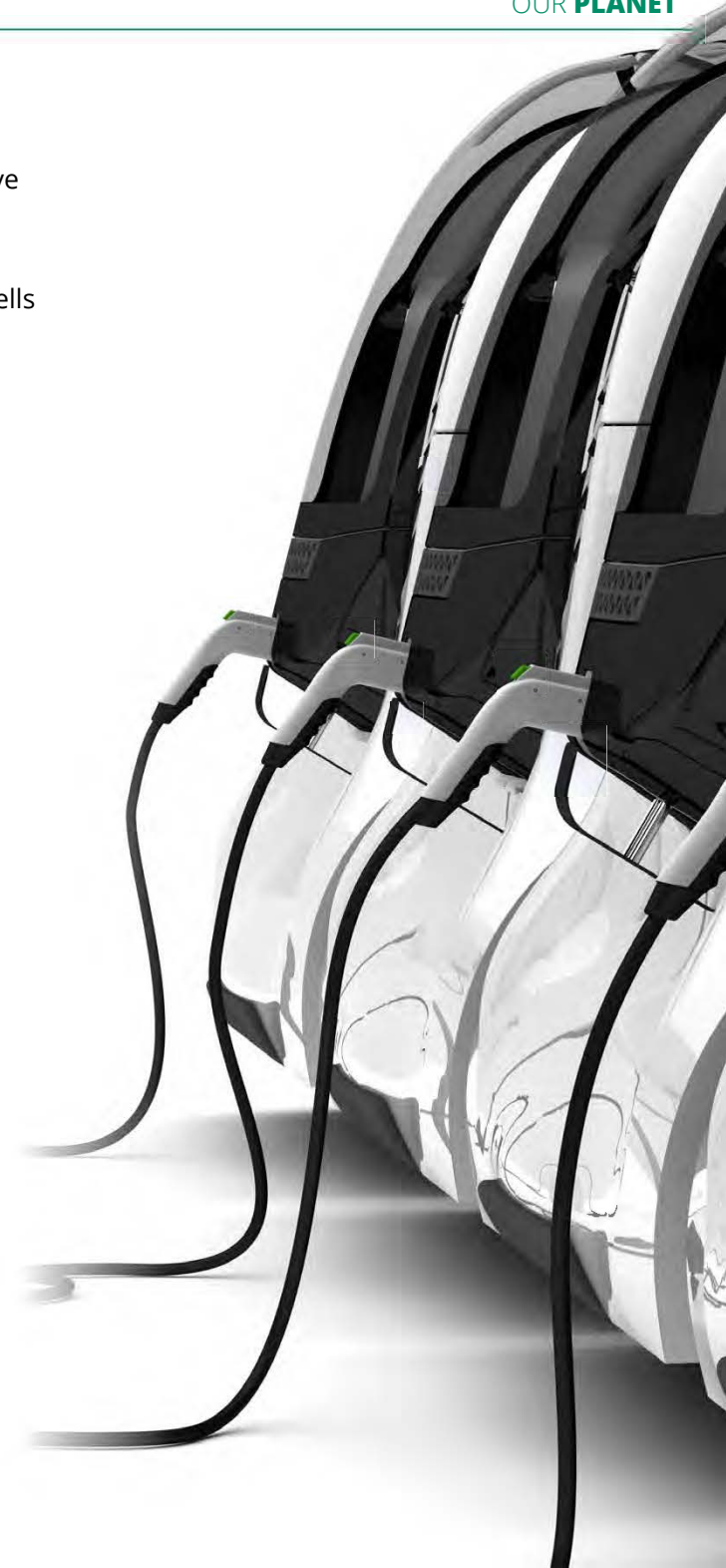
The Rise of Electric Cars

By 2022 electric vehicles will cost the same as their internal-combustion counterparts.



Data compiled by Bloomberg New Energy Finance, Marklines

While IPG products accelerate the world's transition to electric vehicles by making EVs more affordable, IPG is also committed to promoting green living practices and use of EVs by our employees. IPG has already installed EV charging stations at our facilities and plans to expand the installation of EV charging stations to create additional areas for employee and customer use.



SCOPES OF GREENHOUSE GAS EMISSIONS

IPG is dedicated to reducing our environmental impact by tracking emissions and increasing the sustainability of our day-to-day operations. IPG consistently invests in increasing efficiency of its operations, reducing both the cost of our products to our customers and the environmental costs of manufacturing.

SCOPE 1

Emissions from IPG Photonics that are a result of manufacturing, including natural gas, fuels and oils used on site



SCOPE 2

Indirect emissions that are generated offsite and purchased by IPG including electricity



SCOPE 3

Business activities that are not related to Scope 1 and Scope 2 emissions including waste generation, travel, metal extraction, product distribution and other goods and services



PRODUCT STEWARDSHIP

IPG is committed to advancing society with our highly unique innovations and solutions. IPG fiber lasers use a fraction of the electricity required by other competing lasers and traditional laser technologies.

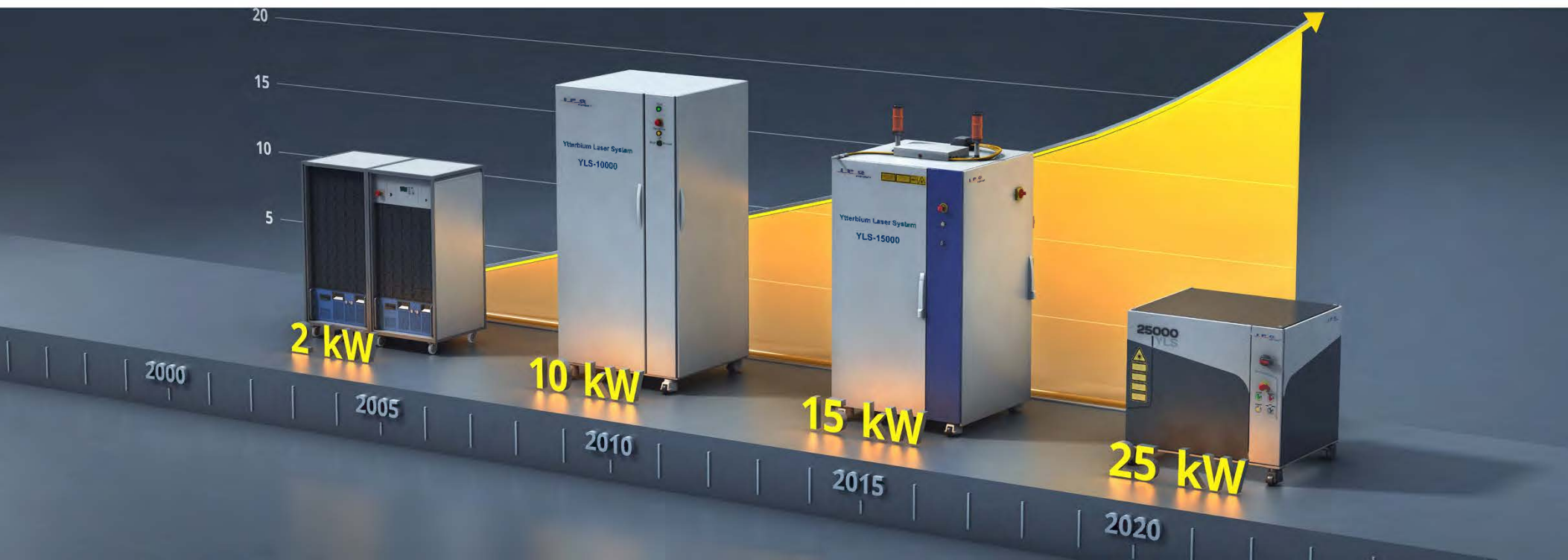
We strive to protect the planet by manufacturing generations of products that are more energy efficient, compact, lighter weight and have a long life cycle.

There is a rising demand for laser power worldwide. IPG is actively accommodating this growing demand while shrinking the form factors of our high-power lasers to conserve resources, floor space and operating costs for our customers. At the same time, we continually increase the efficiency of our lasers, which enables our customers to conserve energy and reduces the water required to cool them.

COMPARISON OF FIBER LASERS

	5 kW Fiber Laser			10 kW Fiber Laser		
	2010	2020	Improvement	2010	2020	Improvement
Electrical Efficiency	~30%	~50%	67%	~30%	~50%	67%
Weight (kG)	500	250	50%	750	550	27%
Volume (m ³)	0.84	0.53	37%	1.34	0.67	50%

*2020 information from ECO-line of fiber lasers.



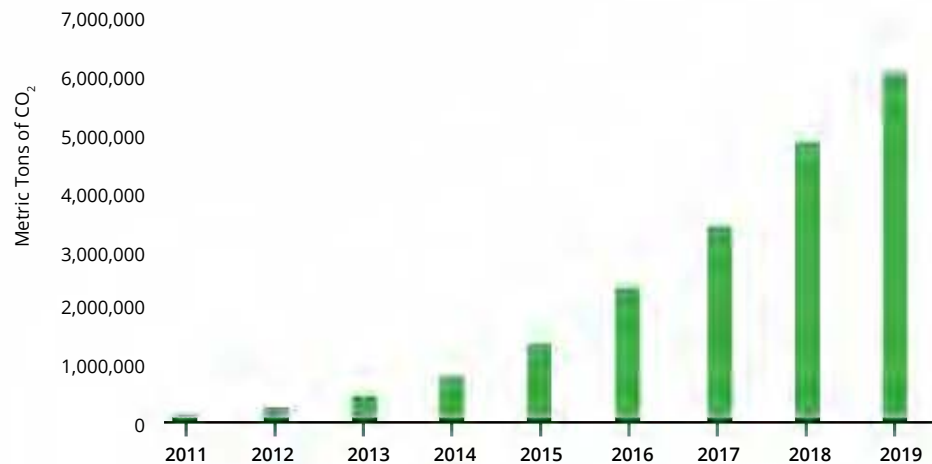
GREENHOUSE GAS EMISSIONS

Core to our mission is improving the efficiency of our products and our manufacturing operations. This translates into two types of emission improvements – reducing the carbon footprint of our customers and our own.

Customer GHG Emissions

IPG invented high power fiber lasers then successfully commercialized them. Our novel fiber laser technology is substantially more electrically efficient than traditional laser technologies enabling our customers to substantially reduce their greenhouse gas emissions and achieve their sustainability targets. We estimate that IPG lasers saved our customers over 18 million metric tons of CO₂ emissions cumulatively from 2011-2019 as compared to use of traditional laser technologies.

CO₂ Savings From IPG Fiber Lasers Sold Since 2011



Use of IPG lasers saved approximately **18,000,000 metric tons** of emissions

That is **35 terawatts** of electricity saved since 2011

- Electricity savings calculation based on IPG total megawatts of power sold, and assumes IPG fiber lasers are replacing lamp-pumped and diode-pumped Nd:YAG, CO₂ and disk lasers
- According to the World Bank, ~2/3rds of world energy is produced from oil, gas and coal
- According to the US Energy Information Administration, typical oil, gas and coal power plants produce ~1.9, ~0.9 and ~2.2 pounds of CO₂ for every kilowatt hour of electricity

GREENHOUSE GAS EMISSIONS

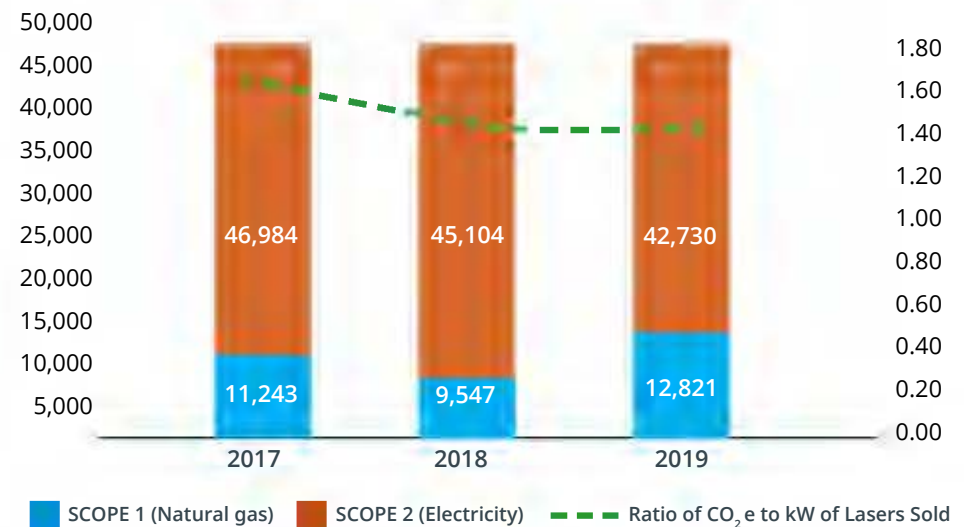
IPG GHG Emissions

IPG makes electronic equipment for competitive markets where the average selling prices for products can decrease significantly each year. Because of this, IPG must produce more units to generate the same revenue. For example, we increased laser production by about 11,000 units from 2017 to 2019 with the optical power of our output growing 12%. Despite the increase in production of lasers and optical power, IPG decreased our energy intensity, as measured by CO₂ emission per kilowatt of laser power, by 15% which demonstrates IPG's commitment to energy conservation and innovation.

We **decreased our emissions 5%** from 2017 to 2019

Our energy intensity **decreased 15%**

GREENHOUSE GAS EMISSIONS METRIC TONS OF CO₂e



IPG reports on its GHG emissions for its primary manufacturing facilities in the US and Germany representing 66% of our total square footage and include those with the most significant resource consumers from manufacturing and R&D. 2019 data includes Genesis Systems acquired in December 2018.

ENERGY & RESOURCE CONSERVATION

IPG has increased laser production over the last three years, but is actively lowering greenhouse gas emissions and preserving natural resources to protect balanced ecosystems.

		2017	2018	2019
Energy Consumed MWh	Heating Oil	323	265	253
	Natural Gas	61,743	52,439	70,770
	Electricity	66,449	63,790	60,432
Total Energy Consumption		128,514	116,493	131,455
Emissions Metric Tons	Greenhouse Gas Emissions	58,227	54,651	55,551
Laser Production kW		35,834	39,345	40,177
Carbon Intensity MWh/kW	GHG Emissions per kW Laser Sold	1.62	1.39	1.38
Water Cubic Meters	Freshwater	176,946	152,414	168,150
Water Intensity	Water/kW Lasers Sold	4.9	3.9	4.2

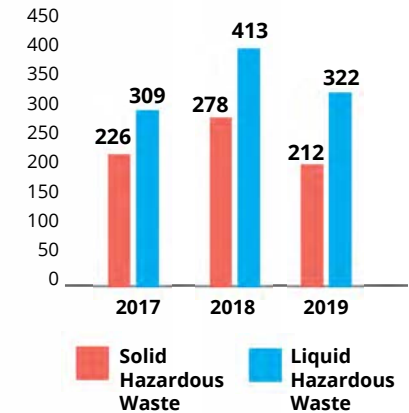
IPG reports on its GHG emissions, resource use and waste for its primary manufacturing facilities in the US and Germany representing 66% of our total production square footage and include those with the most significant resource consumption from manufacturing and R&D. 2019 data adds Genesis Systems Group acquired in December of 2018.

IPG Photonics is determined to conserve energy, reduce greenhouse gas emissions and minimize the use of freshwater. IPG facilities are tasked with the responsibility of managing water consumption and waste water discharge. None of our major production facilities are located in regions with high or extremely high water risk per the World Resources Institute's (WRI) Water Risk Atlas.

NON-HAZARDOUS WASTE GENERATION & DIVERSION (METRIC TONS)



SOLID & LIQUID HAZARDOUS WASTE GENERATION (METRIC TONS)



Most of the waste we generate is a result of our manufacturing operations. From 2017 to 2019, we manufactured 12% more lasers as measured by optical output power. Our solid non-hazardous waste grew because of this as well as the acquisition of Genesis Systems Group in December 2018.

Approximately 85% percent of our waste in 2019 was non-hazardous and the remainder was considered hazardous, the management of which is regulated and strictly monitored. We implement controls to ensure responsible handling of hazardous waste and prioritize treatment and recycling.

We achieved a 21% increase in our recycling of materials from 2017 to 2019 outpacing our increase in manufacturing. IPG has a robust recycling program and we are committed to identifying new recycling opportunities, conserving precious metals, diverting additional waste from landfills and reducing our output of hazardous waste.

A HIGHLY EFFICIENT ENERGY SYSTEM

Tri-generation (TriGen) is a clean and highly productive simultaneous process of power, heating and cooling generations from only one fuel type. By using waste heat recovery technology to capture a significant proportion of wasted heat, IPG is saving energy and protecting the environment from additional air pollutants. We substantially reduced our demand from electrical utilities, which may be coal or diesel-powered, through our on-site TriGen systems. Currently, our headquarters has approximately 4.25 MW of combined heat, cooling and power (CHP) TriGen equipment and our Italian facility has 0.25 MW of TriGen equipment.

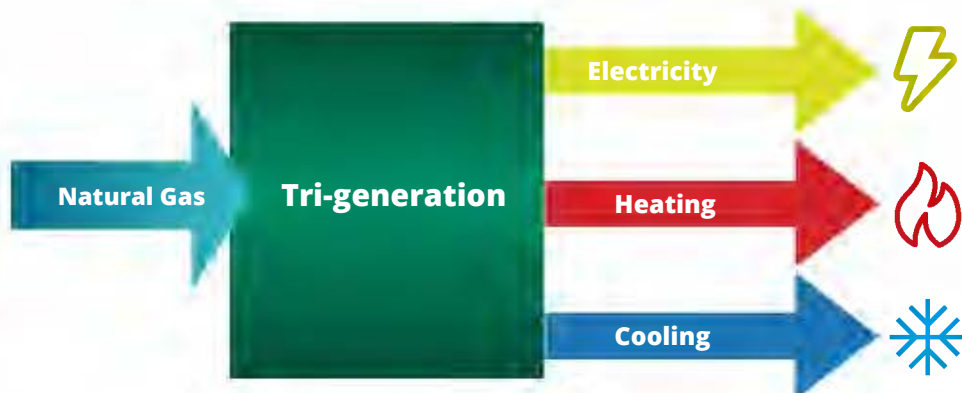


6,808 metric tons
of greenhouse gas
emissions saved by
IPG from TriGen



400,000 gallons
of city water saved a year
from TriGen

OUR TRIGEN SYSTEMS RECYCLE HEAT TO PROVIDE HEATING AND COOLING



The utilization of TriGen technologies have lowered operating costs, reduced greenhouse gas emissions and increased the security of our energy supply.

IPG utilizes well water from an underground aquifer in our TriGen system. We reduced our city water consumption by 400,000 gallons which also reduced the chemical treatments added to city water.

IPG is working on implementing a microgrid at our Oxford facility to conserve energy and combat climate change. The microgrid will increase usage of our highly efficient TriGen equipment and reduce reliance on electricity generated remotely by the electric utility.

In the next few years, the microgrid system will allow IPG to transport energy to different buildings on our campus based on their requirements. This unique portable energy system will create cheaper and more reliable energy to power IPG's largest facility as well as help us become more resilient during a storm or natural disaster.

ARCHITECTURAL EFFORTS **TOWARD CONSERVATION**

IPG believes that environmentally sound practices begin at the ground level. That is why we implemented several programs to lower energy consumption and natural resource usage.



The insulation in our new construction exceed building codes up to **25%**



We replace traditional light fixtures with LED light bulbs worldwide using **75%** less energy



We use water saving fixtures in our new construction projects

VARIABLE FREQUENCY DEVICES (VFDS) TO DECREASE ENERGY CONSUMPTION

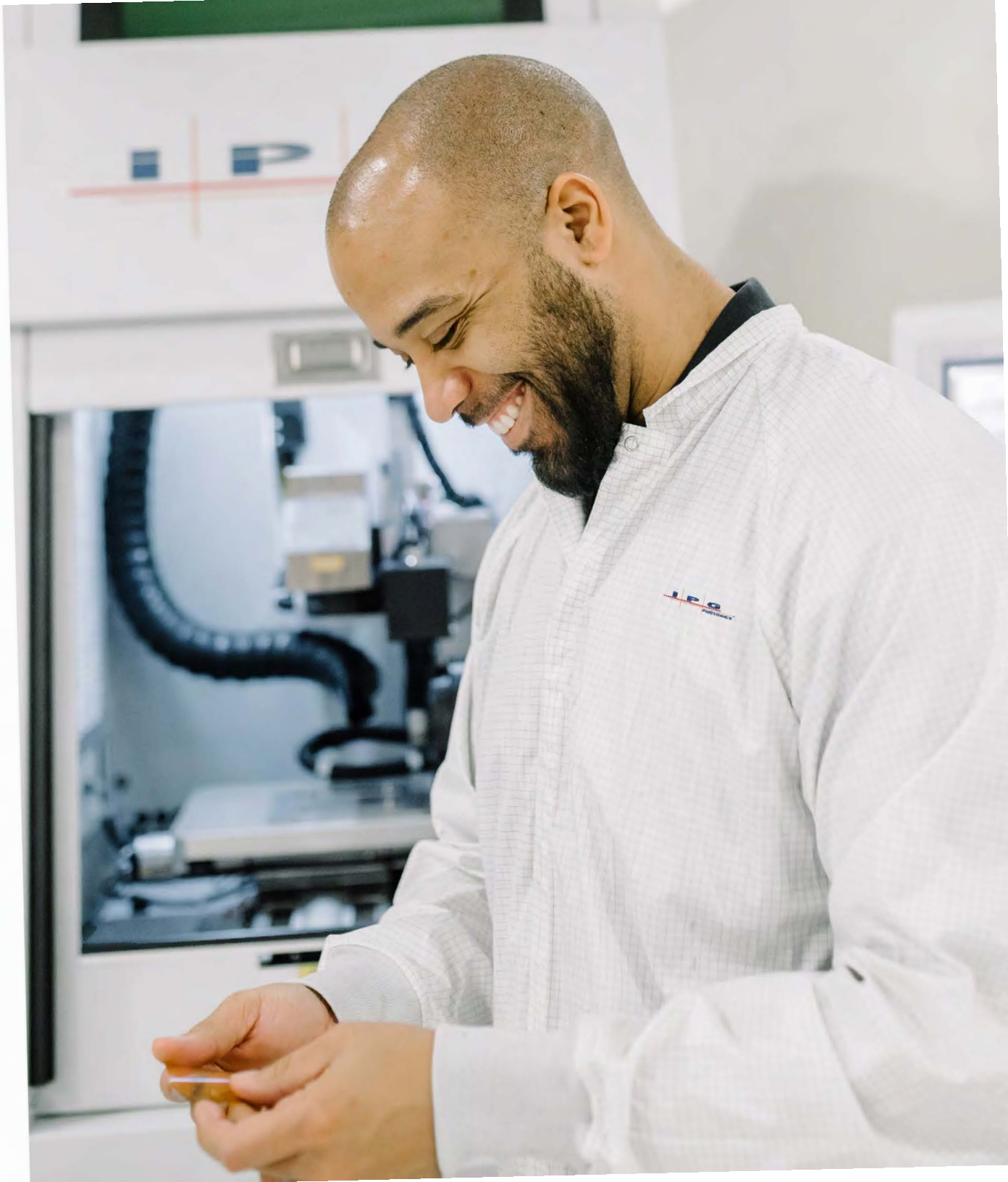
A VFD is one of the most effective energy saving tools. It is an electronic controller that adjusts the speed of an electric motor to the specific demands of the work being performed. VFDs are an alternative to standard single-speed drives which can only operate at full speed. Many machines can be operated at less than full speed, such as HVAC systems, pumps, fans and production equipment. Other benefits of VFDs include prolonged equipment life and the ability to recover energy from braking. IPG has installed over 300 VFDs to date and will continue to advance the efficiency of our building and production equipment through expanded VFD investments.



VFDs save **30%-40%** of energy compared to single-speed drives

OUR PEOPLE

- OUR PEOPLE
- IPG BY GEOGRAPHY
- DIVERSITY AND INCLUSION
- OUR WORKFORCE
- CREATING A CULTURE OF SUCCESS
- SAFETY IN THE WORKPLACE
- OUR RESPONSE TO COVID-19



OUR PEOPLE

Our employees are our most valuable asset. They define and represent who we are. We are committed to attracting and retaining the best talent, and we believe that an engaged, diverse and thriving workforce will drive a sustainable future for our company and society. IPG is proud of our supportive culture, innovative spirit and workplace programs.

DIVERSE LEADERSHIP: IPG is proud to support a culture that values different backgrounds and experiences. A substantial portion of our global leadership workforce consists of women and diverse employees in management roles.

EMPLOYEE DEVELOPMENT: IPG also provides continual development to our employees focused on developing their skills and competencies. Examples include training in new manager competencies like giving feedback and coaching and project management. We provide employee support for attendance at professional conferences, seminars and technical presentations.

EDUCATION ASSISTANCE: IPG pays for educational courses related to an employee's work or as part of a degree program, including tuition, lab fees and books. This program has been effective enabling employees to attain advanced degrees and enhance their career opportunities.

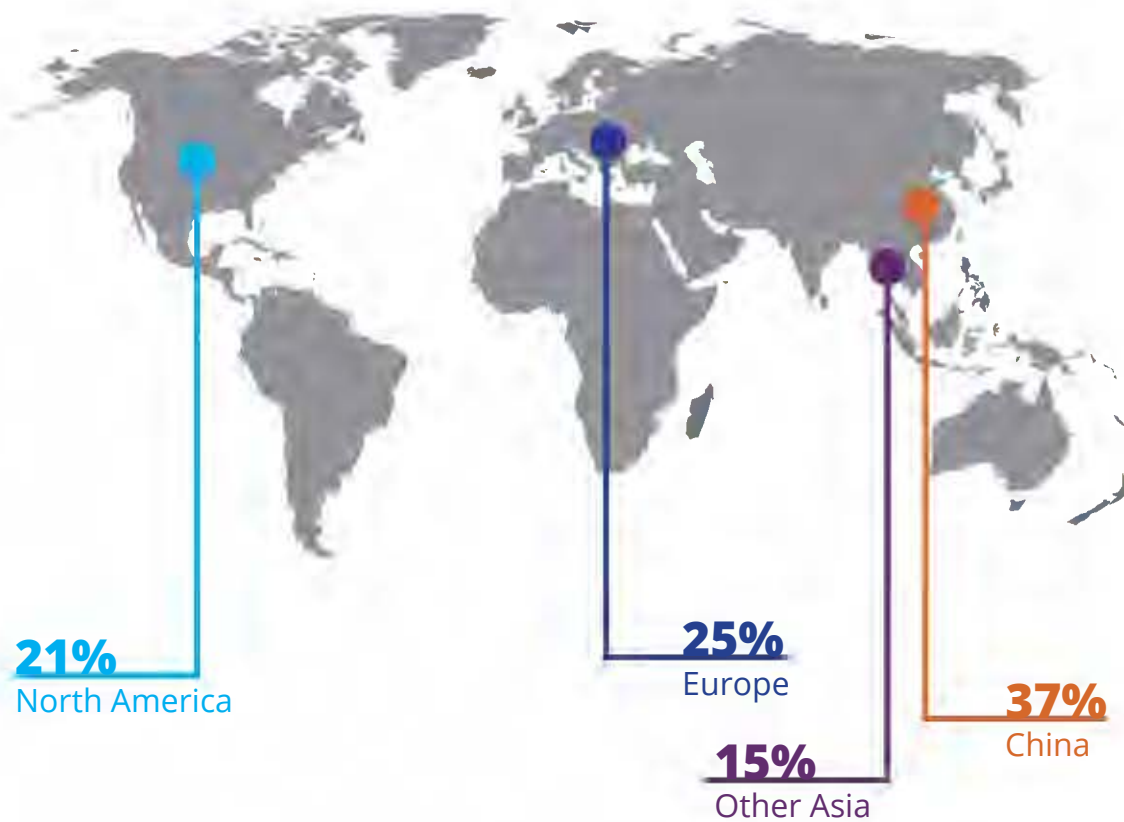
INTERNSHIP PROGRAM: Since its inception, IPG has been committed to fostering diverse and young talent through our internship program. Our paid in-person and remote internships provide practical experience across numerous divisions for college students and recent graduates.

BENEFITS: Employment with IPG offers top-rated benefits and competitive compensation designed to support and retain our employees. Our benefits are locally customized such as health and dental insurance coverage, retirement savings plans and parental leave. We also offer programs to help our employees participate in our profitability through bonuses, equity grants and an employee stock purchase plan, which are available generally to salaried employees.

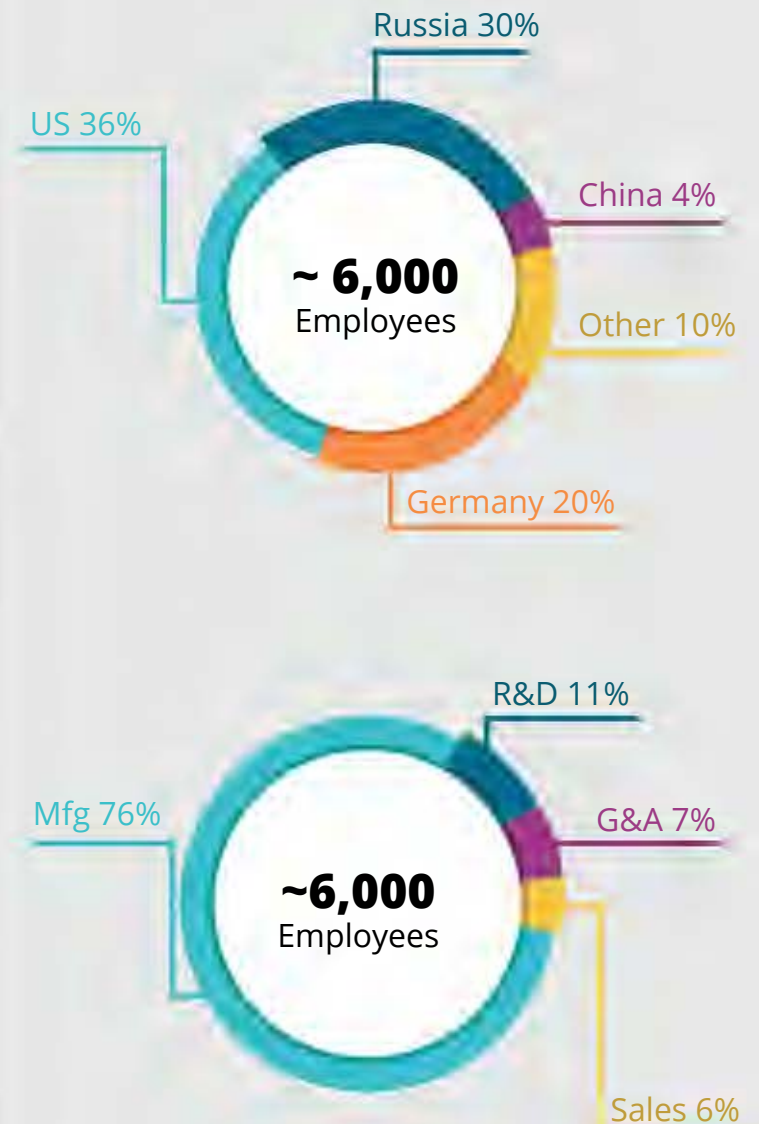


IPG BY GEOGRAPHY

2019 Revenue by Principal Regions



IPG Employees by Locations & Role



DIVERSITY AND INCLUSION

IPG has made great strides to increase diversity in manager positions, building internal resources for potential future executive openings. We recruit and develop diverse candidates for available leadership and other positions at IPG by posting on national and local diversity job boards and maintaining partnerships with organizations and community groups that focus on the needs of minority candidates. We require our search firms to seek female and diverse candidates.

In 2020, IPG partnered with the internship program INROADS, an international non-profit organization designed to promote ethnic diversity across the corporate world. As a national sponsor of INROADS, IPG gained access to extraordinary talent, including top of the class students and recent alumni, to assist IPG at our operations in the United States.

IPG also started a relationship at the national level with the Society of Hispanic Professional Engineers (SHPE) and the Society of Women Engineers (SWE). With these two programs, IPG will work on developing additional programs for corporate sponsorship as well as intern and mentoring opportunities.

We actively recruit at universities having higher than average populations of women and minorities in STEM related programs. IPG also strives to foster talent within the community by recruiting within the local school systems for a variety of different positions. IPG continues to foster innovation and offer educational opportunities to the next generation through scholarships to graduates of Oxford High School and Bay Path Regional Vocational Technical High School.

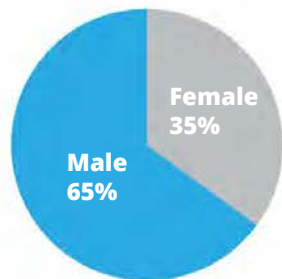
IPG is also an active member of the Boston College Workforce Roundtable – part of the Boston College Center for Work & Family. The Center for Work & Family is the country's leading university-based center focused on helping organizations enhance the employee experience, increase productivity and improve the quality of employee lives.



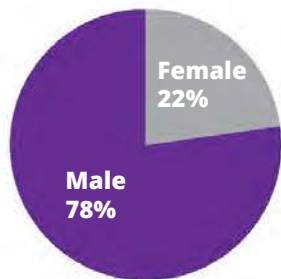
OUR WORKFORCE

IPG is committed to empowering every member of our global workforce. Management ensures that all personnel receive equal opportunities to thrive and grow within IPG Photonics. IPG recognizes the importance of a balanced workforce and strives to employ and promote women into leadership positions across all IPG locations. We are proud that in China, our most important market, 50% of our leadership team is female.

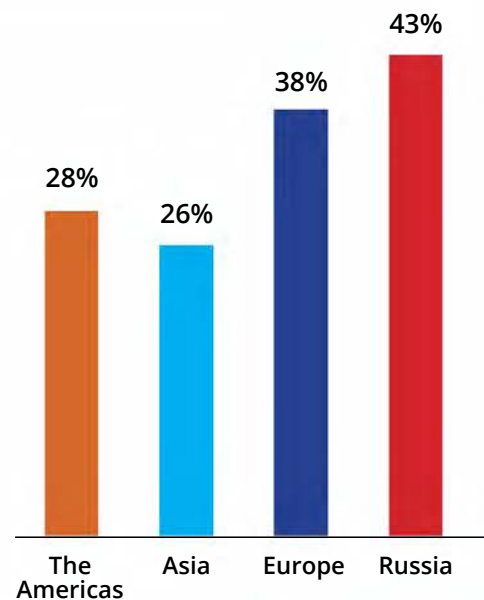
Global Workforce by Gender



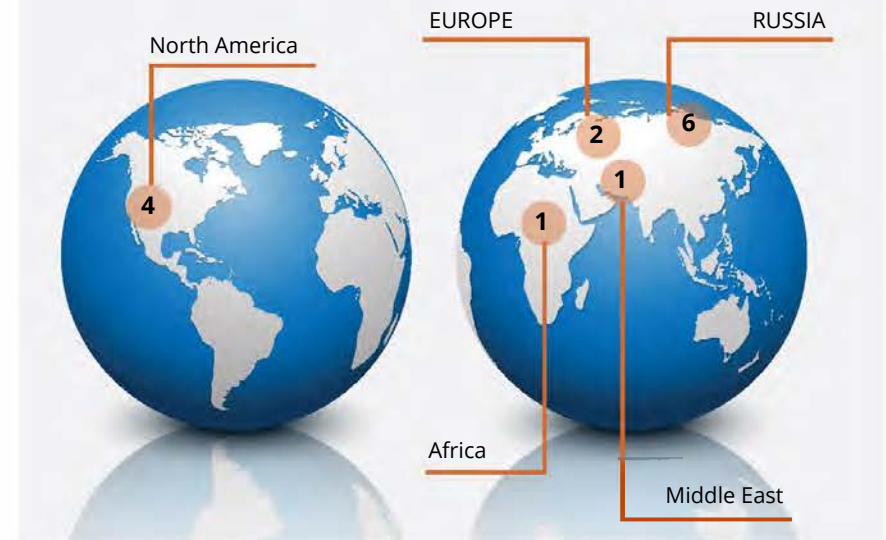
Senior Leaders and Managers



Female Employees by Region



EXECUTIVE DIVERSITY (Birthplace of Management)



Our company has been fortunate with long executive tenures and no impactful executive turnover. While our executive team brings the perspectives of differing global cultures based upon the many continents and countries where our executives were born, the diversity of our executive team does not yet reflect that of our workforce. In an effort to be more inclusive, the company has made strides in increasing diversity below our upper management level and will continue to progress in its efforts. Further, we will continue to look for opportunities to increase diversity in terms of race, ethnicity and gender across all levels of management by developing internal candidates for executive openings and seeking out diverse candidates in outside searches. In this respect, we require our search firms to seek female and diverse candidates. Furthermore, as a regular part of its sessions with company management our Board of Directors will monitor the company's progress in these efforts and undertake to continue providing our executive leadership with input on how to enhance our management team's diversity and report the outcome of these efforts periodically to our stakeholders. Our Board of Directors has set the tone by adopting a policy to require director search firms to include female and diverse candidates in its candidate pool.

CREATING A CULTURE OF SUCCESS

We are dedicated to fostering a culture of inclusion, respect and professionalism. We believe that we are made better and stronger by having a diverse and inclusive workforce shaping our business choices, and we are culturally enriched by having the unique perspectives of people of all backgrounds.

As a global organization, IPG respects and educates new hires on cultural differences and diversity awareness by providing training during the new hire's on-boarding process. We support recruitment and workplace programs that provide equal opportunities to all candidates and current employees.

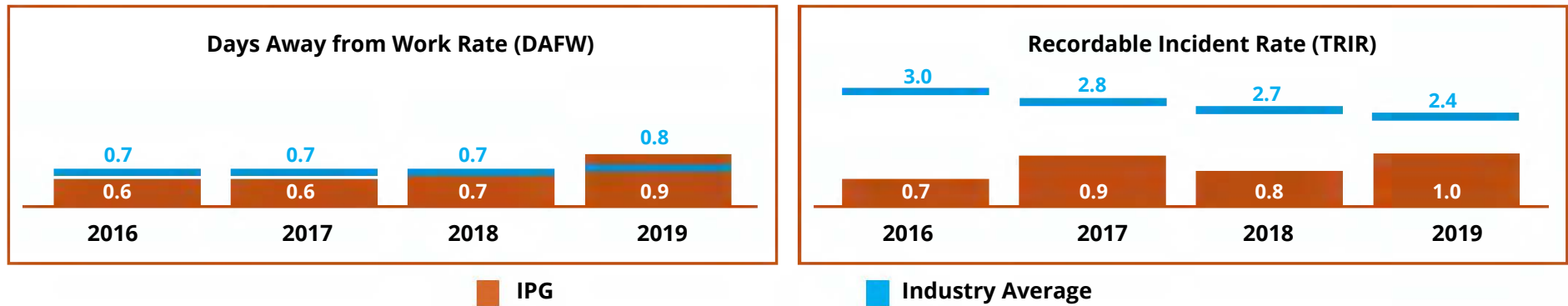
We are committed to developing a community of talented individuals who share our values and are determined to continue to redefine our industry across numerous sectors. Our employee benefits program and individualized training and development programs support the mission of retaining our diverse and inclusive workforce.



SAFETY IN WORKPLACE

At every IPG location safety is the number one priority for our entire workforce. IPG employees complete safety courses including Hazards Communications, Laser Safety and Lockout/Tagout training.

Specifically, our manufacturing employees undergo comprehensive training to help reduce and prevent work place accidents, which contributes to our low incident rates.



Data includes US and German facilities. TRIR = Recordable cases x 200,000 / total hours worked by all employees; DAFW = Lost time cases x 200,000 / total hours worked by all employees. Industry average represents goods-producers with more than 1,000 employee published by US Bureau of Labor Statistics.



IPG is working to enhance its safety management system across its production facilities and is beginning to align its Health and Safety Management System with the GRI Standards and several OSHA guidelines.

OUR RESPONSE TO COVID-19

At IPG, the safety of our employees is our number one priority. Since the beginning of the coronavirus outbreak, IPG has been working to install policies and protocols to ensure the safety of all our employees. IPG has worked to maintain the critical supply chain because our products are necessary within a variety of essential businesses and services. IPG lasers cut and weld parts that go into ventilators, medical devices, transportation equipment and machines that make Personal Protective Equipment (PPE).

“IPG is a resilient company with a 30-year history of successfully managing through difficult and sometimes seemingly insurmountable challenges. On each occasion we have withstood the challenge, learned from the experience and emerged stronger.”

- Dr. Valentin Gapontsev, CEO and Chairman

IPG installed a series of protocols and procedures to protect the safety of our employees, their families and the local communities. IPG complied with local and national guidelines, provided face coverings and PPE gear to employees, installed UVC fans that kill the virus within seconds, and where applicable, introduced employee thermal scanning cameras. IPG implemented an Appreciation Pay Program to honor hourly employees who continued to work on-site during the apex of the pandemic, a COVID-19 Pay Program, and a School Shutdown Pay Program for employees who were required to be at home to care for their children due to school or daycare closure. The outbreak has created a series of social needs within our communities and IPG is responding to these needs by contributing funds, equipment and supplies across the globe.



ASIA

In China, IPG donated approximately **1 million RMB** (\$150,000 USD) to help those in the Wuhan area who were affected by the pandemic.

In Japan, IPG provided support to local community programs to purchase food for children who are unable to attend school due to COVID-19.

EUROPE

IPG Laser in Germany supported the purchase of **PPE supplies** for local healthcare centers.

In Russia, IPG supported the purchase of spare parts for ventilators and the acquisition of infrared thermometers to be used in schools and daycare centers.

In Italy, IPG funded programs to help the elderly and disabled individuals in nursing homes.

AMERICAS

In the United States, IPG worked to address the shortage of PPE gear across the nation. IPG proudly provided over **27,000 N95 masks** and other PPE items to medical facilities across Massachusetts and Rhode Island.

In Mexico, IPG made significant contributions to the Mexican Red Cross.

OUR GOVERNANCE

- Philanthropy
- A Business of Ethical Operations
- IPG Photonics Governance
- Innovations Designed with Integrity
- Upholding Human Rights
- The Power to Transform 2021
- About this Report



PHILANTHROPY

IPG Photonics is actively contributing to non-profit organizations and programs that focus on education, community welfare, arts and social services. IPG recognizes the importance of helping our neighborhoods, and so we strive to enhance our local communities across the globe. In the United States, IPG supports dozens of charities across the world with the goal of promoting community engagement and advancing economic opportunities.

EDUCATION

We have a stake in various programs that help students be well prepared to be tomorrow's leaders and innovators:

- Support secondary education programs that enhance core competencies in STEM
- Focus on helping students develop necessary reading, writing and analytical skills
- In response to COVID-19, IPG made a substantial donation to a local school district to help purchase Chromebooks to accommodate remote learning

CIVIC & SOCIAL SERVICES

IPG believes that it is important to ensure that our communities have access to the most basic needs. We want to improve the quality of life in our regions by empowering people to achieve personal growth and encourage them to take advantage of new opportunities. IPG works to establish more experiences for people in their communities by supporting programs that advance:

- Economic and workforce development
- Diversity
- Scientific literacy
- Conservation and sustainability

HEALTH & WELFARE

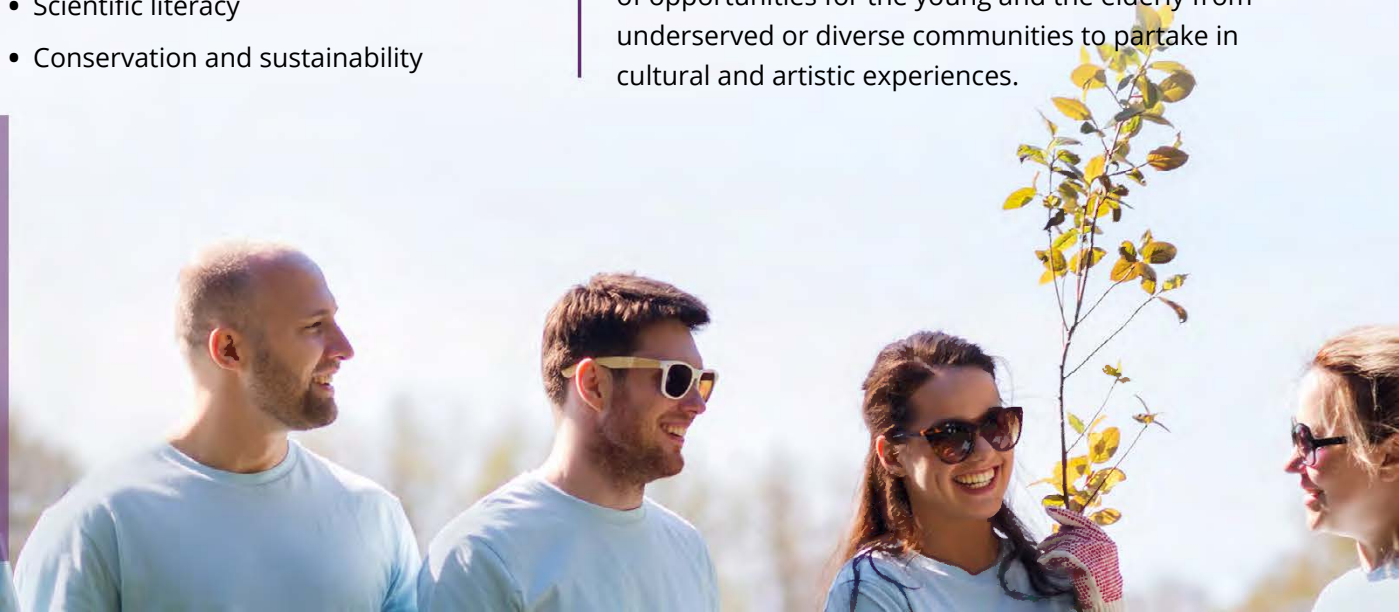
IPG supports local health and welfare programs. We also donate to local youth and recreational centers that promote responsible citizenship, education and community involvement. IPG is focused on initiatives that improve the quality of healthcare and wellness.

ARTS & CULTURE

IPG invests in programs that promote participation in the arts. Artistic expression inspires creativity and improves mental health. IPG supports a variety of opportunities for the young and the elderly from underserved or diverse communities to partake in cultural and artistic experiences.

A LOOK INTO 2021:

IPG is committed to making a donation to the international non-profit Girls Who Code in support of the annual International Women's Day in March of 2021. IPG is committed to helping Girls Who Code by supporting their mission of closing the gender gap within the technology industry.



A BUSINESS OF ETHICAL OPERATIONS

IPG Photonics values strong corporate governance with a focus on protecting the safety and basic human rights of all our employees across the globe.

CODE OF CONDUCT

At IPG, all employees are responsible for adhering to the values and guidelines included in our Code of Business Conduct. Across the world, all IPG employees have a responsibility to uphold the code and respect our high ethical standards. IPG is committed to running a moral, ethical and trustworthy enterprise. The Code of Business Conduct highlights our regulations and values to help employees identify and avoid any unethical actions that would discredit our reputation and ethical standards.

WHISTLEBLOWER POLICY

IPG and its subsidiaries are compliant with all applicable security laws and regulations, accounting standards, accounting controls, audit practices and bribery prohibitions. Any IPG employee may submit a good faith complaint to the management without fear of dismissal or retaliation.

ANTI-BRIBERY POLICY

IPG and our subsidiaries operate in accordance with applicable anti-bribery regulations and local laws. Our Anti-Corruption Policy advises directors, employees, agents and representatives of IPG of their position regarding sensitive transactions and requires that transactions are executed, and access to assets is permitted, only in accordance with management's authorization guided by applicable laws and regulations.

SUPPLIERS CODE OF CONDUCT

IPG works with suppliers who are ISO 9001:2015 certified and are committed to business integrity, human rights, protection of information and EHS management. Our suppliers adhere to the global, fundamental principles of human rights including the freedom of association, right to organize, abolition of forced labor, elimination of child labor, equality and antidiscrimination rights, and provision of legally mandated employee benefits.



IPG PHOTONICS GOVERNANCE

ETHICAL GOVERNANCE:

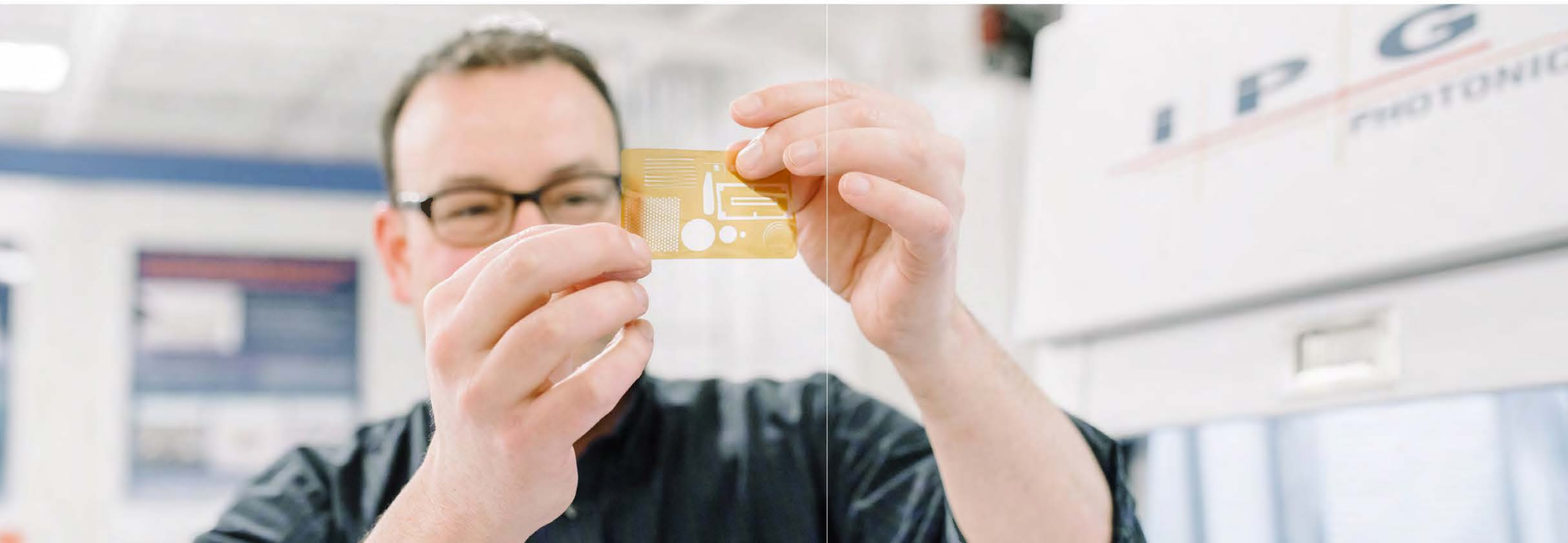
IPG is committed to running an ethical business where all of our employees are given the respect and professionalism they need to thrive. IPG upholds uncompromisingly high ethical standards that are defined by our Code of Business Conduct. Every day, IPG employees implement our values into their operations and interactions. IPG employees and board directors receive comprehensive ethics training upon hire and bi-annually in their local language.

WORK-LIFE BALANCE:

IPG supports a healthy balance between work and other aspects of life. We empower our employees to pursue activities that provide personal fulfillment and social interaction. IPG acknowledges that a strong work-life balance leads to a productive and dynamic workforce. Several IPG locations support physical and mental wellness activities including gym memberships, charity runs and on-site breakrooms. Work-life balance and job security have been two priorities for IPG during the coronavirus pandemic. IPG conducted minimal layoffs and instituted evening schedules for shift workers whose livelihoods were impacted by the closure of schools and day care centers. IPG recognized the immense challenges for employees during this time and protected working parent's income stream and benefits even when they had to take additional time off to care for their children or relatives.

WORKER SAFETY:

Our number one priority is ensuring the safety of every worker across all our regions. In the United States, IPG complies with OSHA standards and manufacturing employees undergo comprehensive safety training to minimize any workplace hazards or accidents.



INNOVATIONS DESIGNED WITH INTEGRITY

HAZARDOUS MATERIALS:

IPG carefully manages all materials and chemicals that are used during production in order to protect the environment and ensure the health and safety of our workers.

European Union REACH - IPG commits to the safe use and identification of chemicals per the requirements of Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH). Our products are “articles” as defined in 3(3) of REACH and do not release substances under normal use. According to REACH, suppliers of articles must provide recipients with information on Substances of Very High Concern (SVHC) if those are present above a concentration limit of 0.1% on an article level. We monitor updates to the list of SVHCs and we strive to minimize or eliminate SVHC substances. Although a substantial majority of our products into the EU marketplace do not contain SVHCs above the specified concentration limits, there may be some that do. We are committed to providing our customers with information regarding SVHC in our products and will continue to monitor our products under REACH.

European Union RoHS and WEEE – IPG complies with applicable provisions of the EU Restriction of Hazardous Substances (RoHS) Directive and Directive 2002/96/EC on Waste Electrical and Electronics Equipment (WEEE) targeting the reduction of environmental impact of waste electrical and electronic equipment. IPG is committed to compliance with the RoHS and WEEE Directives and minimizing the environmental impact of its products.

CONFLICT MATERIALS:

IPG is committed to the responsible sourcing of tin, tantalum, tungsten and gold used in our products and IPG conducts annual due diligence of its suppliers to determine the sourcing of the conflict minerals in its products and confirm there is no evidence that the conflict minerals in IPG’s product funded conflict. IPG will not knowingly source any conflict minerals from sources that fund conflict. If IPG’s due diligence reveals that any of IPG’s suppliers have provided IPG with goods or metals that funded conflict, IPG will seek alternative sources for such goods or metals. IPG files a conflict minerals report with the SEC.

COMPLIANCE & RISK MANAGEMENT:

At IPG, risk management is a priority for our board of directors and senior management. Effectively monitoring and managing risk are essential to the successful execution of IPG’s business strategy. Managers at IPG have the power to manage, mitigate and elevate risks to senior management. The board has oversight for risk management with a focus on the most significant risks, including strategic, operational, financial and compliance risks.



UPHOLDING HUMAN RIGHTS

Across the globe, IPG is committed to ensuring equal opportunities and abiding by local laws. IPG strongly believes in treating all employees fairly and with the utmost respect. At IPG, we offer fair compensation, superior benefits and safe working conditions.

ANTI-HUMAN TRAFFICKING AND CHILD LABOR

IPG upholds a strict zero-tolerance policy prohibiting human trafficking. All forms of forced labor by an employee, supplier, agent, subcontractor or subcontractor employee are prohibited. Workers at IPG are always free to leave upon notice.

IPG does not engage in or benefit from any form of child labor and complies with applicable laws and regulations prohibiting or restricting the employment of minors.

FREEDOM OF ASSOCIATION

IPG respects the rights of employees to affiliate freely with lawful organizations, to choose whether or not to join unions and to bargain collectively in compliance with all applicable laws. IPG will not favor or discriminate against any employee based on whether the employee belongs to any labor organization.

WAGES AND WORK HOURS

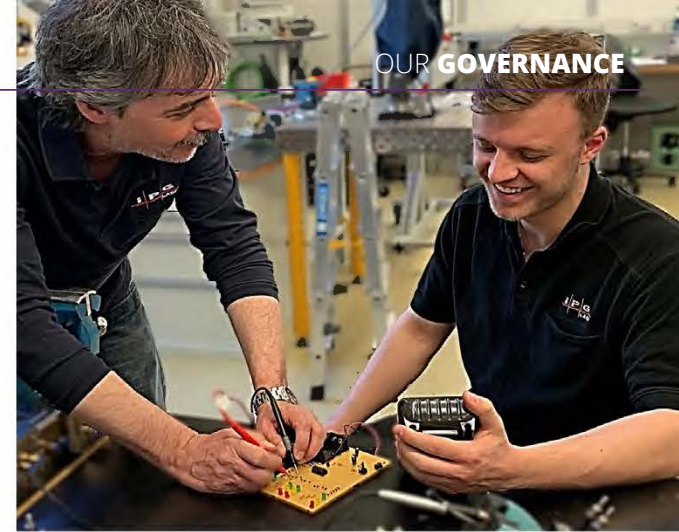
IPG is committed to ensuring that all employees are fairly compensated in compliance with minimum wage, overtime and other local compensation and benefit regulations, including all applicable laws and regulations governing working time including break times, vacations, holidays, sick leave and other leave periods.

ANTI-DISCRIMINATION

IPG does not tolerate discrimination or harassment in any form and supports the protection of individuals based on any category or class protected by applicable federal, state or local laws. IPG seeks to ensure equal employment opportunity for all individuals and to promote a respectful, diverse and inclusive work environment.

RESPONSIBLE SOURCING

IPG will comply with all applicable laws and regulations governing disclosure and verification of materials sourcing to reduce the risk of violations in IPG's supply chain.

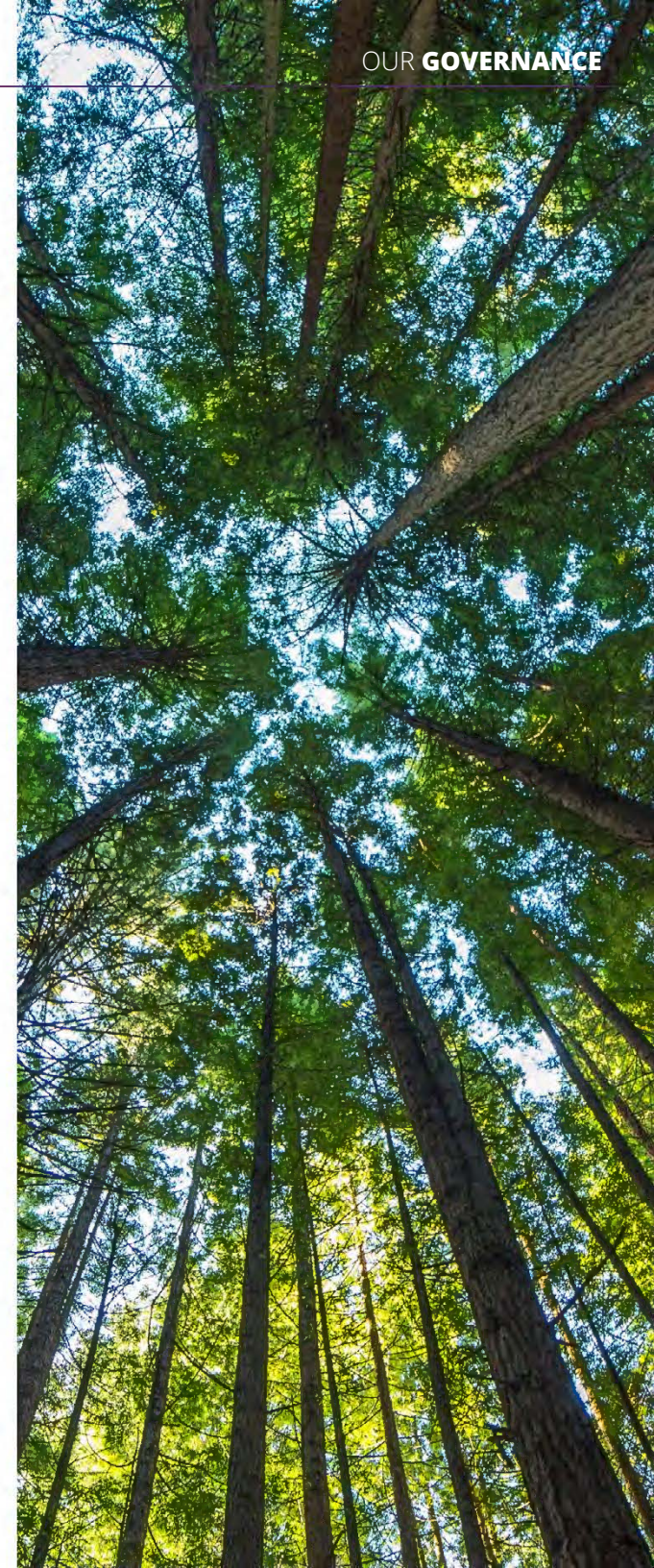


THE POWER TO **TRANSFORM 2021**

IPG Photonics is determined to advance our commitment to society and our planet. We are dedicated to enhancing our sustainability program and to updating our agenda periodically.

IPG plans to establish new goals and conduct assessments to further our sustainability agenda, to reduce our environmental footprint and to advance our community engagement efforts. Among these are to conduct an assessment of climate change upon our business and operations, to investigate opportunities to invest in solar or wind energy to reduce our greenhouse gas emissions and to continue to pursue electrical efficiency increases in our products and operations, with a target reduction of 10% in CO₂ emission per kilowatt of laser power produced over the next decade (assuming the current product mix).

IPG is determined to address the evolving challenges facing society and the planet by continuously updating our priorities and utilizing our unique innovations and technological processes to transform products across all industries.



ABOUT THIS REPORT

This sustainability report covers IPG's approach to sustainability and corporate social responsibility as well as our global progress on environmental, social and governance (ESG) topics. This report was published in December 2020 and covers data from the 2019 calendar year as well as significant developments and highlights from 2020. While this report was not developed in accordance with the GRI Sustainability Reporting Standards, a reference to specific disclosures has been included where full or partial information has been provided. That means we have assessed our most material ESG impacts and have aligned our reporting with them. The report encompasses the operations and geographies noted specifically throughout the report.

Information contained in this document is summary in nature and subject to change without notice. Further information on IPG Photonics financial information and sustainability strategy can be found in our Annual Report, Investor Guidebook and IPG Photonics' 10-K Form.

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Contact Us:

Please send any questions or comments about this report to CSR@IPGPhotonics.com.

IPG Photonics Corporation
50 Old Webster Road
Oxford, MA 01650
IPGPhotonics.com

APPENDIX

United Nations Sustainable Development Goals

IPG Photonics' sustainability strategy is in alignment with the United Nations Sustainable Development Goals (SDGs). IPG's innovations support the United Nations along their goal of establishing a more sustainable society by 2030.



GOOD HEALTH & WELLBEING (PAGES 30-31)

IPG responded to COVID-19 by instituting new policies to maintain the supply chain while simultaneously ensuring the safety of our employees across the globe. Our products help transform lives in the healthcare industry and improve worker safety across the globe. We provide proper laser safety training for our employees in accordance with the OSHA guidelines.



QUALITY EDUCATION (PAGE 33)

IPG is committed to ensuring that today's students are well prepared to be tomorrow's leaders and innovators. Our programs are targeted at post-secondary education that enhance core competencies in STEM.



DECENT WORK & ECONOMIC GROWTH (PAGES 7 & 25)

IPG is an equal opportunity employer with competitive employee benefits and compensation. Our vertical-integrated business model allows us to be a leader in the production of fiber lasers and provide solutions to a variety of industries across the world that are advancing technologies and the efficiency of the global workforce.



INDUSTRY, INNOVATION AND INFRASTRUCTURE (PAGES 7 & 15-16)

Our innovations revolutionize automation, industrial production and the automotive industry. Our superior quality and energy-efficient lasers are built to last and protect the environment.



REDUCED INEQUALITIES (PAGES 27-28 & 37)

Globally, IPG is committed to fostering a work environment that promotes diversity and inclusion. We adhere to our Code of Business Conduct and Human Rights Policy to align our business to protect our employees and provide them with the necessary support they need to succeed.



RESPONSIBLE CONSUMPTION & PRODUCTION (PAGES 7 & 19-21)

IPG carefully monitors our internal supply chain to reduce industrial waste, conserve energy and recycle a variety of materials, including precious metals.



CLIMATE ACTION (PAGES 19-23)

Our facilities have LED fixtures, low water consumption plumbing, variable speed motors and tri-generation plants that reduce emissions. Operating our energy-efficient fiber lasers, reduced global CO₂ emissions by 18 million metric tons compared to other competing laser technologies.

APPENDIX

GRI Standard	Disclosure	IPG Photonics Disclosure, links
GRI 102: General Disclosures		
102-1	Name of the organization	IPG Photonics Corporation About US.
102-2	Activities, brands, products & services	See corporate website. About US.
102-3	Location of headquarters	50 Old Webster Road, Oxford, MA 01540
102-4	Location of operations	We operate three principal manufacturing facilities for fiber lasers, laser systems, fiber amplifiers, and related optical components, which are located in the United States, Germany, and Russia, and we are developing a fourth principal manufacturing location in Belarus. We conduct our major research and development activities in Oxford and Marlborough, Massachusetts; Burbach, Germany; and Fryazino, Russia. We have numerous sales and service offices located throughout the world. 2019 Form 10-K.
102-5	Ownership and legal form	See 2020 Proxy Statement.
102-6	Markets served	See 2019 Form 10-K.
102-7	Scale of the organization	See 2019 Form 10-K.
102-8	Information on employees and other workers	As of December 31, 2019, we had approximately 5,960 permanent, full-time employees. We employ temporary workers in select operations, representing less than 2% of our total workforce. 2019 Form 10-K 2020 Sustainability Report.
102-9	Supply chain	Vertical integration is one of our core business strategies through which we control our proprietary processes and technologies as well as the supply of key components and assemblies. In general, a majority of our components are sourced internally, including semiconductor diodes, optical fibers, electro-optical components, optical components and mechanical assemblies. We purchase common and specialized mechanical, electrical and optical parts and raw materials from third party vendors. IPG's supply chain organizations are designed to support production of its high-performance fiber lasers and amplifiers in a legal, economically effective, and environmentally and socially responsible manner. 2019 Form 10-K
102-10	Significant changes to the organization and its supply chain	IPG has acquired several companies in last three fiscal years, which did not result in significant changes to IPG's size, structure, ownership or supply chain. IPG's business plan is premised on vertical integration using its three largest production locations in Massachusetts, Burbach, Germany, and Fryazino, Russia to provide internal supply needs. IPG has added production capacity in its new facility in Belarus providing lower cost mechanical and other components for our internal production. IPG acquired Genesis Systems Group, LLC, an Iowa-based provider of welding solutions in 2018. 2019 Form 10-K
102-11	Precautionary Principle or approach	A description of the role of the Board of Directors in risk oversight can be found in the 2020 Proxy Statement.
102-12	External initiatives	External initiatives include the following: Customs-Trade Partnership Against Terrorism - USA (CT-PAT); EU Waste Electrical and Electronic Equipment (WEEE) Directive 2005; Global Reporting Initiative—GRI 4.0 sustainability reporting guidelines; U.S. Foreign Corrupt Practices Act and similar anticorruption laws enacted under the OECD Convention on Combating Bribery of Foreign Public Officials in International Business Transactions; US Equal Opportunity laws and accompanying regulations.

APPENDIX

GRI Standard	Disclosure	IPG Photonics Disclosure, links
GRI 102: General Disclosures		
102-13	Membership of associations	IPG does not disclose this information.
102-14	Statement from senior decision-maker	See Chairman and CEO letters to stockholders and other stakeholders. 2020 Proxy Statement 2020 Sustainability Report
102-15	Key impacts, risks, and opportunities	Key impacts, risks and opportunities are outlined in 2019 Form 10-K .
102-16	Values, principles, standards, and norms of behavior	Our Code of Business Conduct outlines our values, principles, standards and norms of behavior. This is reviewed annually by the Board of Directors and employees must undergo periodic training in local languages and acknowledge their acceptance of the Code. Additionally, IPG has the following core values: standing by our products; ethical behavior; compliance with laws and standards. Code of Business Conduct
102-17	Mechanisms for advice and concerns about ethics	Employees are trained to seek advice about ethical or unlawful behavior and to report concerns about unethical or unlawful behavior and organizational integrity by either contacting the legal department or using a confidential method in the Code of Business Conduct .
102-18	Governance structure	See pages 26-29 of 2020 Proxy Statement .
102-19	Delegating authority	Not applicable.
102-20	Executive-level responsibility for economic, environmental, and social topics	IPG employs a cross-functional team to manage the company's global corporate social responsibility (CSR) program that analyzes economic, environmental and social topics. Along with input from our executive management team and the Board of Directors, the team defines CSR focus areas, organizes and standardizes IPG's CSR efforts and conducts measurement and reporting on key CSR metrics. 2020 Sustainability Report
102-21	Consulting stakeholders on economic, environmental, and social topics	IPG's cross-functional CSR team consults key stakeholders on economic, environmental and social topics. These stakeholders include customers, employees and stockholders. 2020 Sustainability Report
102-22	Composition of the highest governance body and its committees	See pages 12-23 of 2020 Proxy Statement .
102-23	Chair of the highest governance body	Dr. Valentin P. Gapontsev is the Chairman of the Board and CEO. He is an executive officer of IPG. 2020 Proxy Statement
102-24	Nominating and selecting the highest governance body	See pages 22-23 of 2020 Proxy Statement .
102-25	Conflicts of interest	See pages 25 and 32 of 2020 Proxy Statement .
102-26	Role of highest governance body in setting purpose, values, and strategy	See page 24 of 2020 Proxy Statement .

APPENDIX

GRI Standard	Disclosure	IPG Photonics Disclosure, links
GRI 102: General Disclosures		
102-27	Collective knowledge of highest governance body	See page 24 of 2020 Proxy Statement .
102-28	Evaluating the highest governance body's performance	See page 24 of 2020 Proxy Statement .
102-29	Identifying and managing economic, environmental, and social impacts	See page 24 of 2020 Proxy Statement .
102-30	Effectiveness of risk management processes	See page 24 of 2020 Proxy Statement .
102-31	Review of economic, environmental, and social topics	See page 24 of 2020 Proxy Statement .
102-32	Highest governance body's role in sustainability reporting	See page 24 of 2020 Proxy Statement .
102-33	Communicating critical concerns	The process for reporting critical concerns is outlined in our Code of Business Conduct. We provide a confidential phone hotline, fax number and confidential web reporting. Code of Business Conduct
102-34	Nature and total number of critical concerns	Not applicable.
102-35	Remuneration policies	See pages 33-56 of 2020 Proxy Statement .
102-36	Process for determining remuneration	See pages 33-56 of 2020 Proxy Statement .
102-37	Stakeholders' involvement in remuneration	See page 39 of 2020 Proxy Statement .
102-38	Annual total compensation ratio	See page 57 of 2020 Proxy Statement .
102-39	Percentage increase in annual total compensation ratio	Not applicable.
102-40	List of stakeholder groups	Customers, employees, stockholders, suppliers, governments and communities. 2020 Sustainability Report

APPENDIX

GRI Standard	Disclosure	IPG Photonics Disclosure, links
GRI 102: General Disclosures		
102-41	Collective bargaining agreements	Employees of several IPG companies participate in unions and employees of several other IPG companies participate in collective bargaining agreements. Human Rights Policy
102-42	Identifying and selecting stakeholders	IPG's key stakeholders include customers, employees, shareholders, suppliers and communities. 2020 Sustainability Report
102-43	Approach to stakeholder engagement	IPG engages with the stakeholders listed in disclosure 102-40 throughout the year.
102-44	Key topics and concerns raised	See 2020 Proxy Statement .
102-45	Entities included in the consolidated financial statements	See 2019 Form 10-K .
102-46	Defining report content and topic Boundaries	Not applicable.
102-47	List of material topics	Not applicable.
102-48	Restatements of information	Not applicable.
102-49	Changes in reporting	Not applicable.
102-50	Reporting period	2019.
102-51	Date of most recent report	Not applicable.
102-52	Reporting cycle	Annual.
102-53	Contact point for questions regarding the report	csr@ipgphotonics.com .
102-54	Claims of reporting in accordance with the GRI Standards	We self-declare that the report is prepared in accordance with GRI Standards: Comprehensive Option.
102-55	GRI content index	This Sustainability Reporting Table serves as our GRI content index.
102-56	External assurance	While we have not sought external assurance for the content of this Sustainability Reporting Table, certain data included is subject to external review and all information provided is reviewed internally.

APPENDIX

GRI Standard	Disclosure	IPG Photonics Disclosure, links
GRI 103: Management Approach		
103-1	Explanation of the material topic and its Boundary	IPG believes that CSR is a crucial component of the company's success. As such, the Company has allocated employee time and efforts to measure and manage our CSR initiatives. 2020 Sustainability Report
103-2	The management approach and its components	IPG employs a cross-functional team to manage the company's global corporate social responsibility program. Along with input from our executive management team and the Board of Directors, the team defines CSR focus areas, organizes and standardizes IPG's CSR efforts and conducts measurement and reporting on key sustainability metrics. 2020 Sustainability Report
103-3	Evaluation of the management approach	IPG's CSR team consists of executives and managers in our Legal, Accounting, Investor Relations, Human Resources, Operations, Safety, Facilities, Supply Chain and Quality departments. The team's objectives are to develop and enhance IPG's global CSR program, identify gaps in CSR compliance and develop strategies to ensure compliance and to improve IPG external communication of environmental, social and governance metrics. 2020 Sustainability Report
GRI 201: Economic Performance		
201-1	Direct economic value generated and distributed	2019 direct economic value generated \$1,336,139,000; 2019 economic value distributed: \$1,149,101,000; 2019 economic value retained: \$187,037,000. 2019 Form 10-K
201-2	Financial implications and other risks and opportunities due to climate change	We believe an increasing global focus on mitigating risks from climate change presents an opportunity for greater adoption of our high power fiber laser technology, which we invented and commercialized. IPG fiber lasers uses less electricity than other types of laser and we estimate that operation of IPG fiber lasers instead of other types of lasers has resulted in approximately 18 million metric tons less global CO ₂ emissions by our customers since 2011 and over 6 million metric tons less CO ₂ emission in 2019 alone. We help our customers achieve their sustainability goals by lowering their electrical usage while still providing high performance industrial tools. IPG fiber lasers are used in renewable energy products including production of electric vehicles (EV), solar cells and EV batteries. Our laser technology also enables lighter materials to be used in transportation that reduces weight and improves fuel efficiency. Laser welding reduces the amount of overlapping material required in joining metal panels, and IPG lasers enable more efficient and faster drilling of holes in turbine blades and fans that improve jet engine fuel efficiency. 2020 Sustainability Report 9, 12 and 15-16
201-3	Defined benefit plan obligations and other retirement plans	IPG does not offer a defined benefit plan to employees. IPG offers defined contribution plans that vary country by country. 2019 Form 10-K
201-4	Financial assistance received from government	Not applicable.
GRI 202: Market Presence		
202-1	Ratios of standard entry level wage by gender compared to local minimum wage	IPG does not disclose this information.
202-2	Proportion of senior management hired from the local community	IPG does not disclose this information.

APPENDIX

GRI Standard	Disclosure	IPG Photonics Disclosure, links
GRI 203: Indirect Economic Impacts		
203-1	Infrastructure investments and services supported	Not applicable.
203-2	Significant indirect economic impacts	IPG does not measure indirect economic impacts as noted nor does IPG track indirect economic impacts in context of external benchmarks.
RI 204: Procurement Practices		
204-1	Proportion of spending on local suppliers	IPG does not disclose this information.
GRI 205: Anti-Corruption		
205-1	Operations assessed for risks related to corruption	All operations are assessed for risks related to corruption. No significant risks have been identified.
205-2	Communication and training about anti- corruption policies and procedures	All IPG employees receive training on IPG's anti-corruption policy upon employment and biannually.
205-3	Confirmed incidents of corruption and actions taken	Not applicable.
GRI 206: Anti-Competitive Behavior		
206-1	Legal actions for anti- competitive behavior, anti-trust, and monopoly practices	IPG has no legal actions for anti-competitive behavior, anti-trust or monopoly practices.
GRI 207: Tax		
207-1	Approach to tax	Our tax strategy is implemented in support of our business strategy and global operations. IPG reports profits and pays taxes on those profits in the countries of its operations, including research & development, manufacturing and sales, in accordance with the laws of each country. Our tax rate is based on our income, statutory tax rates and tax planning opportunities available to us in the various jurisdictions in which we operate. We file federal and state income tax returns in the United States and in numerous international jurisdictions. 2019 Form 10-K
207-2	Tax governance, control, and risk management	Our tax strategy is implemented by our Chief Financial Officer, along with other members of the finance tax group and regional controllers, in consultation with our executive management team and oversight by the Audit Committee of the Board of Directors. 2019 Form 10-K
207-3	Stakeholder engagement and management of concerns related to tax	We engage with tax authorities in the many regions in which we operate.
207-4	Country-by-country reporting	See 2019 Form 10-K .

APPENDIX

GRI Standard	Disclosure	IPG Photonics Disclosure, links
GRI 301: Materials		
301-1	Materials used by weight or volume	IPG does not track this information.
301-2	Recycled input materials used	See 2020 Sustainability Report
301-3	Reclaimed products and their packaging materials	IPG provides incentives for customers to return pump modules, which we then repair, refurbish or recycle. 2020 Sustainability Report
GRI 302: Energy		
302-1	Energy consumption within the organization	Approximately, 131,455 megawatt hours of electricity, heating oil and natural gas consumption in 2019. 2020 Sustainability Report .
302-2	Energy consumption outside of the organization	IPG does not track this information.
302-3	Energy intensity	55,551 metric tons CO ₂ emissions in 2019 equivalent per 1.38 kW of laser power shipped, refer to 2020 Sustainability Report
302-4	Reduction of energy consumption	In 2019, our energy consumption was 131,455 megawatt hours, which was lower than our 2017 consumption despite and increase in production and acquisitions. 2020 Sustainability Report
302-5	Reductions in energy requirements of products and services	IPG has continually increased the wall-plug efficiency (watts of electricity required to generate a watt of optical energy) of our laser products. For example, the wall-plug efficiency of a 5 kilowatt continuous wave Ytterbium fiber laser has increased by about 67% from 2010 to 2020. 2020 Sustainability Report
GRI 303: Water and Effluents		
303-1	Interactions with water as a shared resource	IPG does not track this information.
303-2	Management of water discharge-related impacts	IPG does not track this information.
303-3	Water withdrawal	IPG does not track this information.
303-4	Water discharge	IPG does not track this information.
303-5	Water consumption	Approximately 168,150 cubic meters in 2019. 2020 Sustainability Report

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GRI Standard	Disclosure	IPG Photonics Disclosure, links
GRI 304: Biodiversity		
304-1	Operational sites owned, leased, managed in, or adjacent to, protected areas and areas of high biodiversity value outside protected areas	None to our knowledge.
304-2	Significant impacts of activities, products, and services on biodiversity	None to our knowledge.
304-3	Habitats protected or restored	None to our knowledge.
304-4	IUCN Red List species and national conservation list species with habitats in areas affected by operations	None to our knowledge.
GRI 305: Emissions		
305-1	Direct (Scope 1) GHG emissions	Approximately 12,821 metric tons CO ₂ equivalent in 2019. 2020 Sustainability Report
305-2	Energy indirect (Scope 2) GHG emissions	Approximately 42,730 metric tons CO ₂ equivalent in 2019. 2020 Sustainability Report
305-3	Other indirect (Scope 3) GHG emissions	IPG does not track this information.
305-4	GHG emissions intensity	GHG emission per kW lasers sold (MWh/kW) is 1.38 in 2019. 2020 Sustainability Report
305-5	Reduction of GHG emissions	Our GHG emissions and GHG emissions intensity decreased from 2017 to 2019. 2020 Sustainability Report
305-6	Emissions of ozone- depleting substances (ODS)	There are no ozone depleting substances found on site in the United States or Germany.
305-7	Nitrogen oxides (NOX), sulfur oxides (SOX), and other significant air emissions	Not applicable.
GRI 306: Effluents and Waste		
306-1	Water discharge by quality and destination	IPG does not disclose this information.
306-2	Waste by type and disposal method	IPG does not disclose this information.
306-3	Significant spills	None.
306-4	Transport of hazardous waste	IPG uses licensed transporters only.
306-5	Water bodies affected by water discharges and/or runoff	Not applicable.

APPENDIX

GRI Standard	Disclosure	IPG Photonics Disclosure, links
GRI 307: Environmental Compliance		
307-1	Non-compliance with environmental laws and regulations	IPG has received no material fines or non-monetary sanctions for non-compliance with environmental laws and/or regulations in 2019.
GRI 308: Supplier Environmental Assessment		
308-1	New suppliers that were screened using environmental criteria	Our suppliers adhere to the Supplier Code of Conduct which outlines environmental standards they must meet.
308-2	Negative environmental impacts in the supply chain and actions taken	IPG does not perform negative environmental impact assessments of its supply chain.
GRI 401: Employment		
401-1	New employee hires and employee turnover	IPG does not disclose this information.
401-2	Benefits provided to full-time employees that are not provided to temporary or part-time employees	IPG does not disclose this information.
401-3	Parental leave	IPG complies with local laws to allow for parental leave for regular employees. 2020 Sustainability Report
GRI 402: Labor/Management Relations		
402-1	Minimum notice periods regarding operational changes	We provide a minimum number of weeks' notice to employees prior to implementing significant operational changes that could substantially affect them in accordance with local operations.
GRI 403: Occupational Health and Safety		
403-1	Occupational health and safety management system	In the US, IPG works with the globally recognized ANSI Z10 Management System. In Germany, the occupational health and safety management system has been implemented according to German law and part of our ISO quality system.
403-2	Hazard identification, risk assessment, and incident investigation	IPG conducts hazards assessments and risk assessments. Incidents, injuries and illness are reported, tracked and investigated. 2020 Sustainability Report
403-3	Occupational health services	Designated clinics, alternative transportation for non-emergency follow-ups and eye care clinics are available at specific sites where applicable.
403-4	Worker participation, consultation, and communication on occupational health and safety	Where applicable there are regular safety meetings with our safety officers. Prevention medical check-up by the company doctor for workers subject to work risks.
403-5	Worker training on occupational health and safety	Training at hire and retaining periodically varying by operations and exposures. 2020 Sustainability Report
403-6	Promotion of worker health	Yes, there are amenities related to health. 2020 Sustainability Report

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GRI Standard	Disclosure	IPG Photonics Disclosure, links
GRI 403: Occupational Health and Safety		
403-7	Prevention and mitigation of occupational health and safety impacts directly linked by business relationships	We design and optimize our working stations to prevent posture damage or other health problems.
403-8	Workers covered by an occupational health and safety management system	Workers are covered by our operating procedures which incorporate health and safety practices.
403-9	Work-related injuries	IPG tracks and reports in accordance with local laws and regulations. 2020 Sustainability Report
403-10	Work-related ill health	IPG tracks and reports in accordance with local laws and regulations. 2020 Sustainability Report
GRI 404: Training and Education		
404-1	Average hours of training per year per employee	IPG does not disclose this information.
404-2	Programs for upgrading employee skills and transition assistance programs	IPG does not disclose this information.
404-3	Percentage of employees receiving regular performance and career development reviews	IPG does not disclose this information.
GRI 405: Diversity and Equal Opportunity		
405-1	Diversity of governance bodies and employees	IPG does not disclose this information.
405-2	Ratio of basic salary and remuneration of women to men	IPG does not disclose this information.
GRI 406: Non-Discrimination		
406-1	Incidents of discrimination and corrective actions taken	IPG does not disclose this information.
GRI 407: Freedom of Association and Collective Bargaining		
407-1	Operations and suppliers in which the right to freedom of association and collective bargaining may be at risk	We have identified none. IPG allows employees to have the right to freedom to association and collectively bargaining. Human Rights Policy

APPENDIX

GRI Standard	Disclosure	IPG Photonics Disclosure, links
GRI 408: Child Labor		
408-1	Operations and suppliers at significant risk for incidents of child labor	We have identified none. Our labor policy prohibits the use of child labor and prohibits workers under the age of 15 or the minimum age under local law. IPG's Supplier Code of Conduct contains similar restrictions on child labor. Human Rights Policy Supplier Code of Conduct , Anti-Human Trafficking Policy
GRI 409: Forced Labor		
409-1	Operations and suppliers at significant risk for incidents of forced or compulsory labor	There are no identified risks of child and forced labor abuse at any of our operations. IPG's Terms and Conditions of Purchase, Supplier Code of Conduct, and Anti-Human Trafficking Policy and Compliance Plan contain explicit restrictions on child labor to which all suppliers are expected to adhere. IPG also supports the UK Modern Slavery Act and is committed to identify and address the risks of modern slavery, as outlined in IPG's UK Modern Slavery Act Transparency Statement. Human Rights Policy Supplier Code of Conduct , Anti-Human Trafficking Policy
GRI 410: Security Practices		
410-1	Security personnel trained in human rights policies or procedures	IPG hires third parties organizations for security which are required to comply with law and our Supplier Code of Conduct
GRI 411: Rights of Indigenous Peoples		
411-1	Incidents of violations involving rights of indigenous peoples	None.
GRI 412: Human Rights Assessment		
412-1	Operations that have been subject to human rights reviews or impact assessments	Not applicable.
412-2	Employee training on human rights policies or procedures.	IPG employees undergo Code of Business Conduct training biannually.
412-3	Significant investment agreements and contracts that include human rights clauses or that underwent human rights screening	Contracts require suppliers to agree to our Supplier Code of Conduct, which includes human rights provisions. Supplier Code of Conduct
GRI 413: Local Communities		
413-1	Operations with local community engagement, impact assessments, and development programs	IPG Photonics actively contributes to non-profits organizations and programs that are designed to enhance education, community welfare and social services. IPG consistently donates equipment and machinery to first responders in the Massachusetts and Rhode Island area. Furthermore, in response to the coronavirus pandemic IPG donated essential PPE supplies to our key communities across the globe, as disclosed in the Sustainability Report. 2020 Sustainability Report
413-2	Operations with significant actual and potential negative impacts on local communities	IPG has not identified any operations with significant actual or potential negative impacts on local communities.

APPENDIX

GRI Standard	Disclosure	IPG Photonics Disclosure, links
GRI 414: Supplier Social Assessment		
414-1	New suppliers that were screened using social criteria	IPG requires suppliers to comply with all applicable environmental, health and safety laws, regulations and directives. Suppliers are expected to protect the health, safety and welfare of their people, visitors and others who may be affected by their activities. Supplier Code of Conduct
414-2	Negative social impacts in the supply chain and actions taken	Through our vertical integration model, we reduce purchases from third-party supply chains as well as the negative social impacts of any third-party supplier actions.
GRI 415: Political Contributions		
415-1	Political contributions	IPG had no political contributions for the reporting period.
GRI 416: Customer Healthy and Safety		
416-1	Assessment of the health and safety impacts of product and service categories	Product safety group is responsible for ensuring the safety of our products. In addition, third party certifiers are utilized to assess certain of our products.
416-2	Incidents of non-compliance concerning the health and safety impacts of products and services	IPG is not aware of any non-compliance concerning the health and safety impacts of any of our products or services.
GRI 417: Marketing and Labeling		
417-1	Requirements for product and service information and labeling	IPG is required by applicable laws to label its products to disclose laser light, electrical and other risks.
417-2	Incidents of non-compliance concerning product and service information and labeling	IPG is not aware of any non-compliance concerning the product and service information and labeling of any of our products or services.
417-3	Incidents of non-compliance concerning marketing communications	IPG is not aware of any non-compliance concerning the marketing communications of any of our products or services.
RI 418: Customer Privacy		
418-1	Substantiated complaints concerning breaches of customer privacy and losses of customer data	IPG has not identified any substantial complaints received concerning breaches of customer privacy.
GRI 419: Socioeconomic Compliance		
419-1	Non-compliance with laws and regulations in the social and economic area	IPG has received no material fines or non-monetary sanctions for non-compliance with laws and/or regulations in the social and economic area.

EXHIBIT D

2019 Proposal

[see attached]



December 5, 2019

Corporate Secretary
IPG Photonics Corp.
50 Old Webster Road
Oxford, MA 01540

Dear Secretary

Trillium Asset Management LLC ("Trillium") is an investment firm based in Boston specializing in socially responsible asset management. We currently manage approximately \$3 billion for institutional and individual clients.

As requested and authorized by the Sundance Family Foundation and the Richard E. Jacobs Trust FBO Nancy Jacobs, Trillium Asset Management, as our clients' investment advisor, hereby submits the enclosed shareholder proposal with IPG Photonics Corp. for inclusion in the 2020 proxy statement and in accordance with Rule 14a-8 of the General Rules and Regulations of the Securities and Exchange Act of 1934 (17 C.F.R. § 240.14a-8). Per Rule 14a-8, Sundance Family Foundation and the Richard E. Jacobs Trust FBO Nancy Jacobs each hold more than \$2,000 of the company's common stock, acquired more than one year prior to today's date and held continuously for that time. As evidenced in the attached letters, Sundance Family Foundation and the Richard E. Jacobs Trust FBO Nancy Jacobs will remain invested in this position continuously through the date of the 2020 annual meeting. We will forward verification on behalf of Sundance Family Foundation and the Richard E. Jacobs Trust FBO Nancy Jacobs of their positions separately. Sundance Family Foundation and the Richard E. Jacobs Trust FBO Nancy Jacobs will send a representative to the stockholders' meeting to move the shareholder proposal as required by the SEC rules.

We would welcome discussion with IPG Photonics Corp. about the contents of the proposal.

Please direct any communications to me at (617) 532-6681, Trillium Asset Management, Two Financial Center, 60 South Street, Suite 1100, Boston, MA 02111; or via email at sbaker@trilliuminvest.com.

We would appreciate receiving a confirmation of receipt of this letter via email.

Sincerely,

A handwritten signature in black ink that reads "Susan Baker".

Susan Baker
Vice President, Shareholder Advocacy
Trillium Asset Management, LLC

cc: Valentin P. Gapontsev, Chairman and Chief Executive Officer
Enc.

Diversity in Executive Leadership

WHEREAS:

We believe that diversity, inclusive of gender and race, are critical attributes of a well-functioning executive team and necessary to meaningfully drive diversity throughout an organization.

Currently, IPG Photonics management team¹ has no woman and an undeterminable number of people of color.

The business case for workforce diversity is compelling. McKinsey & Company, found in 2015, and in a larger 2017 study that highly diverse executive teams had higher returns on equity and earnings performance than those with low diversity.² ISS Analytics examined companies where the CEO had a tenure of at least three years and found companies that combined gender diversity in the boardroom and the C-Suite showed, overall, the best results in terms of risk-adjusted quality of performance. (ISS Analytics /Governance Insights/October, 2018)

Yet, the number of women and people of color in leadership roles remains low. Nine percent of top executive roles in the Russell 3000 are held by women.³ Among S&P500 companies women comprise 44.7 percent of all employees yet just 26.5 percent of executives, senior officials and managers. Women of color face a wider gap.⁴

Companies across industries are setting goals to address this significant issue. Intel has been tracking diversity data since 2014 and ties diversity goals to incentive compensation. In 2018, two years ahead of schedule, Intel achieved full representation of underrepresented minorities and women in its U.S. workforce. Symantec set a goal to increase the percentage of women in leadership (Director-level and above) to thirty percent by 2020. Citigroup, in 2018, announced plans to reverse “falling diversity” by setting public quantitative goals and holding senior leaders accountable for meeting them.

IPG Photonics has strengthened diversity on its board of directors. It is time to extend focus and accountability to building diversity in its leadership ranks.

To address the lack of diversity in senior roles we believe the Board must set clear policies to attract, retain and promote women and people of color, including reporting on gender pay equity, establishing sponsorship programs, and family support programs.

Further, we believe that linking diversity performance metrics to senior executive compensation packages can sharpen management's ability to manage human capital risks, increase accountability and successfully reach inclusion and diversity goals.

RESOLVED: Shareholders request that the Board of Directors prepare a report (at a reasonable cost, in a reasonable time, and omitting confidential information) providing its assessment of the current state of its management team diversity and if and how it plans to make the company's management team more diverse in terms of race, ethnicity, and gender.

¹ <https://investor.ipgphotonics.com/governance/management-team/default.aspx>

² McKinsey & Company, *Delivering through Diversity*; V. Hunt, S. Prince, S. Dixon-Fyle, L. Yee; January, 2018

³ <https://corpgov.law.harvard.edu/2018/08/13/women-in-the-c-suite-the-next-frontier-in-gender-diversity/>

⁴ <https://www.catalyst.org/research/women-in-sp-500-companies/>

Supporting Statement: A report adequate for investors to assess IPG Photonic's strategy and performance could include disclosures such as use of "Rooney Rule" practices when interviewing for open positions, and hiring and promotion rates of women and people of color across employment.

Susan Baker
Vice President, Shareholder Advocacy
Trillium Asset Management, LLC
Two Financial Center
60 South Street, Suite 1100
Boston, MA 02111

Fax: 617-482-6179

Dear Ms. Baker:

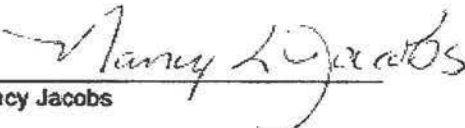
I hereby request Trillium Asset Management, LLC to file a shareholder proposal on behalf of the Richard E. Jacobs Trust, FBO Nancy Jacobs at IPG Photonics Corporation on the subject of executive leadership diversity.

I am the beneficial owner of more than \$2,000 of IPG Photonics common stock that I have continuously held for more than one year. I intend to hold the aforementioned shares of stock continuously through the date of the company's annual meeting in 2020.

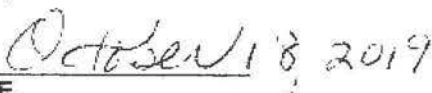
I specifically give Trillium Asset Management, LLC authority to deal, on behalf of the Richard E. Jacobs Trust, FBO Nancy Jacobs, with any and all aspects of this specific shareholder proposal. This authorization will terminate upon the conclusion of the company's 2020 annual meeting. I intend all communications from the company and its representatives to be directed to Trillium Asset Management, LLC. I understand that my name may appear on the corporation's proxy statement as the filer of the aforementioned shareholder proposal.

Sincerely,

Richard E. Jacobs Trust FBO Nancy Jacobs



Nancy Jacobs



DATE

Susan Baker
Vice President, Shareholder Advocacy
Trillium Asset Management, LLC
Two Financial Center
60 South Street, Suite 1100
Boston, MA 02111

Fax: 617-482-6179

Dear Ms. Baker:

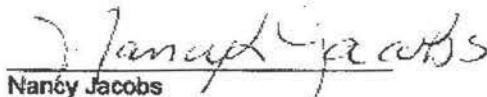
I hereby request Trillium Asset Management, LLC to file a shareholder proposal on behalf of the Sundance Family Foundation at IPG Photonics Corporation on the subject of executive leadership diversity.

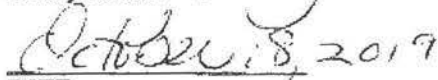
Sundance Family Foundation is the beneficial owner of more than \$2,000 of IPG Photonics common stock that it has continuously held for more than one year. It intends to hold the aforementioned shares of stock continuously through the date of the company's annual meeting in 2020.

I specifically give Trillium Asset Management, LLC authority to deal, on the Sundance Family Foundation's behalf, with any and all aspects of this specific shareholder proposal. This authorization will terminate upon the conclusion of the company's 2020 annual meeting. I intend all communications from the company and its representatives to be directed to Trillium Asset Management, LLC. I understand that the Sundance Family Foundation name may appear on the corporation's proxy statement as the filer of the aforementioned shareholder proposal.

Sincerely,

Sundance Family Foundation


Nancy Jacobs


DATE