

Samartsev Igor
 Form 4
 November 13, 2009

FORM 4 UNITED STATES SECURITIES AND EXCHANGE COMMISSION
 Washington, D.C. 20549

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person *
 Samartsev Igor

2. Issuer Name and Ticker or Trading Symbol
 IPG PHOTONICS CORP [IPGP]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)
 C/O IPG PHOTONICS CORPORATION, 50 OLD WEBSTER ROAD

3. Date of Earliest Transaction (Month/Day/Year)
 11/11/2009

Director 10% Owner
 Officer (give title below) Other (specify below)
 Acting GM of NTO IRE-Polus

(Street)
 OXFORD, MA 01540

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)
 Form filed by One Reporting Person
 Form filed by More than One Reporting Person

(City) (State) (Zip)

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount or Price		
Common Stock	11/11/2009		M		2,297 A \$ 1.5	381,086	D
Common Stock	11/11/2009		S		2,297 D \$ 15.88	378,789	D
Common Stock	11/11/2009		M		38,800 A \$ 5.37	417,589	D
Common Stock	11/11/2009		S		38,800 D \$ 15.88	378,789	D

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Common Stock	11/12/2009	M	1,200	A	\$ 5.37	379,989	D
Common Stock	11/12/2009	S	1,200	D	\$ 15.94 <u>(2)</u>	378,789	D

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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SEC 1474
(9-02)

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned
(e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Underlying Securities (Instr. 3 and 4)		
				Code	V (A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Employee Stock Option (right to buy)	\$ 1.5	11/11/2009		M	2,297	<u>(3)</u>	12/12/2012	Common Stock	2,297
Employee Stock Option (right to buy)	\$ 5.37	11/11/2009		M	38,800	<u>(4)</u>	04/18/2016	Common Stock	38,800
Employee Stock Option (right to buy)	\$ 5.37	11/12/2009		M	1,200	<u>(4)</u>	04/18/2016	Common Stock	1,200

Reporting Owners

Reporting Owner Name / Address

Relationships

Director	10% Owner	Officer	Other
X		Acting GM of NTO IRE-Polus	

Samartsev Igor
C/O IPG PHOTONICS CORPORATION
50 OLD WEBSTER ROAD
OXFORD, MA 01540

Signatures

Angelo P. Lopresti,
Attorney-in-fact

11/13/2009

__Signature of Reporting Person

Date

Explanation of Responses:

* If the form is filed by more than one reporting person, *see* Instruction 4(b)(v).

** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. *See* 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

The reported transaction involved sales transactions from \$15.76 to \$16.11 per share. The Reporting Person undertakes to provide upon request by the SEC staff, the Issuer or a security holder of the Issuer information regarding the number of shares sold at each separate price.

(1) The reported transaction involved sales transactions from \$15.92 to \$16.05 per share. The Reporting Person undertakes to provide upon request by the SEC staff, the Issuer or a security holder of the Issuer information regarding the number of shares sold at each separate price.

(2) These options are exercisable immediately.

(3) These options are exercisable in five equal annual installments of 13,333 shares beginning on 4/18/07.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.

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