IPG PHOTONICS CORP Form SC 13G/A January 30, 2015

SCHEDULE 13G

(Rule 13d-102)

Information to be Included in Statements Filed Pursuant to Rule 13d-1(b), (c) and (d) and Amendments Thereto Filed Pursuant to Rule 13d-2.

SECURITIES AND EXCHANGE COMMISSION WASHINGTON, D.C. 20549

Under the Securities Exchange Act of 1934 (Amendment No. 3)*

IPG Photonics Corp

(Name of Issuer)

Common Stock

(Title of Class of Securities)

44980X109

(CUSIP Number)

December 31, 2014

(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

[X] Rule 13d-1(b)

[_] Rule 13d-1(c)

[_] Rule 13d-1(d)

* The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

1	NAME OF REP	ORT	ING PERSON		
	Artisan Pa	rtn	ers Limited Partnership		
2	CHECK THE A		OPRIATE BOX IF A MEMBER OF A GROUP	(a) (b)	
	Not Applicable				L_J
3	SEC USE ONL	Υ			
4	CITIZENSHIP Delaware	OR	PLACE OF ORGANIZATION		
		5	SOLE VOTING POWER		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH			None		
		6	SHARED VOTING POWER		
			1,291,506		
	EPORTING PERSON WITH	7	SOLE DISPOSITIVE POWER		
			None		
		8	SHARED DISPOSITIVE POWER		
			1,402,895		
9	AGGREGATE A	MOU:	NT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	1,402,895				
10	CHECK BOX I		HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES ons)		[_]
	Not Applic	abl	e 		
11	PERCENT OF	CLA	SS REPRESENTED BY AMOUNT IN ROW (9)		
	2.7%				
12	TYPE OF REP (see Instru				
	IA 				
CUS	SIP No. 4498	0X1	09 13G		
1	NAME OF REP	ORT	ING PERSON		

Artisan Investments GP LLC

2	CHECK THE A		OPRIATE BOX IF A MEMBER OF A GROUP ons)		[_] [_]
	Not Applic	abl	е	(2)	,
3	SEC USE ONI	Υ			
4	CITIZENSHIP	OR	PLACE OF ORGANIZATION		
	Delaware				
		5	SOLE VOTING POWER		
OWNED BY EACH			None		
		6	SHARED VOTING POWER		
			1,291,506		
	PORTING PERSON WITH	7	SOLE DISPOSITIVE POWER		
	AA T T I I		None		
		8	SHARED DISPOSITIVE POWER		
			1,402,895		
9	AGGREGATE A	MOU	NT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	1,402,895				
10	CHECK BOX I		HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES ons)		[_]
	Not Applic	abl	е		
11	PERCENT OF	CLA	SS REPRESENTED BY AMOUNT IN ROW (9)		
	2.7%				
12	TYPE OF REP	ORT	ING PERSON		
	НС				
CUS	IP No. 4498	0X1	09 13G		
1	NAME OF REP	ORT	ING PERSON		
			ers Holdings LP		
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (see Instructions)			(a)	
	Not Applic	abl	e	(b)	[_]

3	SEC USE ONL	Y			
4	CITIZENSHIP	OR	PLACE OF ORGANIZATION		
	Delaware				
		5	SOLE VOTING POWER		
NUI	MBER OF SHARES EFICIALLY WNED BY EACH PORTING PERSON WITH		None		
		6	SHARED VOTING POWER		
			1,291,506		
		7	SOLE DISPOSITIVE POWER		
			None		
		8	SHARED DISPOSITIVE POWER		
			1,402,895		
9	AGGREGATE A	MOU:	NT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	1,402,895				
10	CHECK BOX I (see Instru		HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES ons)		[_]
	Not Applic	abl	е		
11	PERCENT OF	CLA	SS REPRESENTED BY AMOUNT IN ROW (9)		
	2.7%				
12	TYPE OF REP (see Instru				
	НС				
CUS	IP No. 4498	OXI			
1	NAME OF REP	ORT	ING PERSON		
			ers Asset Management Inc.		
2					
					[_]
	Not Applic SEC USE ONL		e 		
J					
4			PLACE OF ORGANIZATION		
	Delaware				

	5 SOLE VOTING POWER					
NUMBER OF	None					
SHARES BENEFICIALI	LY 6 SHARED VOTING POWER					
OWNED BY EACH	1,291,506					
REPORTING PERSON	7 SOLE DISPOSITIVE POWER					
WITH	None					
	8 SHARED DISPOSITIVE POWER					
	1,402,895					
9 AGGREG <i>A</i>	ATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON					
1,402,	895					
	BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (_]					
Not Ap	pplicable					
11 PERCENT	OF CLASS REPRESENTED BY AMOUNT IN ROW (9)					
2.7%	2.7%					
	12 TYPE OF REPORTING PERSON					
(see Instructions)						
нс						
Item 1(a)	Name of Issuer:					
	IPG Photonics Corp					
Item 1(b)	Address of Issuer's Principal Executive Offices:					
	50 Old Webster Road, Oxford, Massachusetts 01540					
Item 2(a)	Name of Person Filing:					
	Artisan Partners Limited Partnership ("APLP") Artisan Investments GP LLC ("Artisan Investments") Artisan Partners Holdings LP ("Artisan Holdings") Artisan Partners Asset Management Inc. ("APAM")					
Item 2(b)	Address of Principal Business Office:					
	APLP, Artisan Investments, Artisan Holdings, and APAM are all located at:					
	875 East Wisconsin Avenue, Suite 800 Milwaukee, WI 53202					

Item 2(c) Citizenship:

APLP is a Delaware limited partnership Artisan Investments is a Delaware limited liability company Artisan Holdings is a Delaware limited partnership APAM is a Delaware corporation

Item 2(d) Title of Class of Securities:

Common Stock

Item 2(e) CUSIP Number:

44980X109

- Item 3 Type of Person:
 - (e) APLP is an investment adviser registered under section 203 of the Investment Advisers Act of 1940.
 - (g) Artisan Holdings is the sole limited partner of APLP and the sole member of Artisan Investments; Artisan Investments is the general partner of APLP; APAM is the general partner of Artisan Holdings.
- Item 4 Ownership (at December 31, 2014):
 - (a) Amount owned "beneficially" within the meaning of rule 13d-3: 1,402,895
 - (b) Percent of class:
 - 2.7% (based on 52,182,177 shares outstanding as of November $3,\ 2014$)
 - (c) Number of shares as to which such person has:
 - (i) sole power to vote or to direct the vote:

None

(ii) shared power to vote or to direct the vote:

1,291,506

(iii) sole power to dispose or to direct the disposition of:

None

(iv) shared power to dispose or to direct the disposition
 of:

1,402,895

Item 5 Ownership of Five Percent or Less of a Class:

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following [X].

Item 6 Ownership of More than Five Percent on Behalf of Another Person:

Not Applicable

Not Applicable

Item 8 Identification and Classification of Members of the Group:

Not Applicable

Not Applicable

Item 10 Certification:

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of business and were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

Signature

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Date: January 30, 2015

ARTISAN PARTNERS ASSET MANAGEMENT INC, for itself and as the general partner of ARTISAN PARTNERS HOLDINGS LP

By: Gregory K. Ramirez *

ARTISAN INVESTMENTS GP LLC, for itself and as the general partner of ARTISAN PARTNERS LIMITED PARTNERSHIP

By: Gregory K. Ramirez *

*By: /s/ Gregory K. Ramirez

Gregory K. Ramirez
Senior Vice President of Artisan
Partners Asset Management Inc.
Vice President of Artisan
Investments GP LLC

Exhibit Index

Exhibit 1 Joint Filing Agreement dated January 30, 2015 by and among Artisan Partners Limited Partnership, Artisan Investments GP LLC, Artisan Partners Holdings LP, and Artisan Partners Asset Management Inc.

EXHIBIT 1

JOINT FILING AGREEMENT

The undersigned hereby agree to the joint filing of the Schedule $13\mathrm{G}$ to which this Agreement is attached.

Dated: January 30, 2015

ARTISAN PARTNERS ASSET MANAGEMENT INC, for itself and as the general partner of ARTISAN PARTNERS HOLDINGS LP

By: Gregory K. Ramirez *

ARTISAN INVESTMENTS GP LLC, for itself and as the general partner of ARTISAN PARTNERS LIMITED PARTNERSHIP

By: Gregory K. Ramirez *

*By: /s/ Gregory K. Ramirez

Gregory K. Ramirez
Senior Vice President of Artisan
Partners Asset Management Inc.
Vice President of Artisan
Investments GP LLC