IPG PHOTONICS CORP Form SC 13G/A March 24, 2014

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. 2 )\*

IPG Photonics Corp

\_\_\_\_\_

(Name of Issuer)

Common Stock

\_\_\_\_\_

(Title of Class of Securities)

44980X109

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(CUSIP Number)

March 12, 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).

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CUSIP 1	No. 44980	0X109 13G			
1 NAI	ME OF REPO	ORTING PERSON			
A	rtisan Pa	rtners Limited Partnership			
2 CHECK THE A (see Instru		APPROPRIATE BOX IF A MEMBER OF A GROUP ructions)			
Ν	ot Applica	able			
3 SE	C USE ONLY	Υ			
4 CI	TIZENSHIP	OR PLACE OF ORGANIZATION			
D,	elaware				
		5 SOLE VOTING POWER			
NUMBE		None			
	CIALLY	6 SHARED VOTING POWER			
OWNE	СН	3,620,909			
REPOR PER WI		7 SOLE DISPOSITIVE POWER			
WI	11	None			
		8 SHARED DISPOSITIVE POWER			
		3,892,196			
9 AG	GREGATE AN	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON			
3	,892,196				
		F THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARE ctions)	s	[_]	
N	ot Applica	able			
11 PE	RCENT OF (	CLASS REPRESENTED BY AMOUNT IN ROW (9)			
7	.5%				
	PE OF REPO ee Instruc	ORTING PERSON ctions)			
I	A				

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1 NAME	OF REPO	ORT	ING PERSON		
Art	isan Inv	ves	tments GP LLC		
	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (see Instructions)				
Not	Applica	abl	e		
3 SEC	USE ONLY	Y			
4 CITI	ZENSHIP	OR	PLACE OF ORGANIZATION		
Del	aware				
		5	SOLE VOTING POWER		
NUMBER SHARE			None		
BENEFICI	ALLY	6	SHARED VOTING POWER		
OWNED EACH			3,620,909		
REPORTI PERSO	N	7	SOLE DISPOSITIVE POWER		
WITH			None		
		8	SHARED DISPOSITIVE POWER		
			3,892,196		
9 AGGR	EGATE AN	NOU	NT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
3,8	92,196				
	K BOX II		HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES ons)		[_]
Not	Applica	abl	e		
11 PERC	ENT OF (	CLA	SS REPRESENTED BY AMOUNT IN ROW (9)		
7.5					
12 TYPE		ORT	ING PERSON		
HC					
			Page 3 of 10		

13G

CUSIP No. 44980X109

	Artisan Pa	rtn	ers Holdings LP		
2	2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (see Instructions) Not Applicable				[_] [_]
3	SEC USE ONL	Y			
4	CITIZENSHIP	OR	PLACE OF ORGANIZATION		
	Delaware				
		5	SOLE VOTING POWER		
NU	MBER OF		None		
	SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON		SHARED VOTING POWER		
			3,620,909		
			SOLE DISPOSITIVE POWER		
	WITH		None		
		8	SHARED DISPOSITIVE POWER		
			3,892,196		
9	AGGREGATE AI	MOUI	NT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	3,892,196				
10	CHECK BOX II		HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES ons)		[_]
	Not Applica	abl	e		
11	PERCENT OF (	CLA	SS REPRESENTED BY AMOUNT IN ROW (9)		
	7.5%				
12	TYPE OF REPO				
	НС				
_			Page 4 of 10		-

CUSIP No. 44980X109

13G

\_\_\_\_\_

1 NAME OF REPORTING PERSON

Artisan Partners Asset Management Inc.

2	2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (see Instructions)			[_]
	Not App]	icable		
3	SEC USE (	DNLY		
4	CITIZENSH	HIP OR PLACE OF ORGANIZATION		
	Delaware			
		5 SOLE VOTING POWER		
NU	MBER OF	None		
	SHARES EFICIALLY	6 SHARED VOTING POWER		
	WNED BY EACH	3,620,909		
	PORTING			
	WITH	None		
		8 SHARED DISPOSITIVE POWER		
		3,892,196		
9	AGGREGATE	AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
	3,892,19	96		
10		X IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES ructions)		[_]
	Not Appl	icable		
11	PERCENT (	OF CLASS REPRESENTED BY AMOUNT IN ROW (9)		
	7.5%			
12		REPORTING PERSON cructions)		
	HC			
		Page 5 of 10		
Ite	m 1(a) 1	Jame of Issuer:		
		IPG Photonics Corp		
Ite	m 1(b) /	Address of Issuer's Principal Executive Offices:		
		50 Old Webster Road, Oxford, MA 01540		
Ite	em 2(a) 1	Name of Person Filing:/1/		

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.

- \_\_\_\_\_
- /1/ This amendment to the Schedule 13G is being filed solely as a result of the change in control of Artisan Partners Limited Partnership. As of March 12, 2014, Artisan Investment Corporation, ZFIC, Inc., Andrew A. Ziegler and Carlene M. Ziegler are no longer deemed to be controlling persons of Artisan Partners Limited Partnership and are no longer joint filers with the other reporting persons.

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Item 4 Ownership (at March 12, 2014):

(a) Amount owned "beneficially" within the meaning of rule 13d-3:

3,892,196

(b) Percent of class:

7.5% (based on 51,954,978 shares outstanding as of February 25, 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:3,620,909
- (iii) sole power to dispose or to direct the disposition of:

None

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

3,892,196

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

Not Applicable

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

The shares reported herein have been acquired on behalf of discretionary clients of APLP. Persons other than APLP are entitled to receive all dividends from, and proceeds from the sale of, those shares. None of those persons, to the knowledge of APLP, Artisan Holdings, APAM, or Artisan Investments has an economic interest in more than 5% of the class.

Item 7 Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by the Parent Holding Company or Control Person:

Not Applicable

Item 8 Identification and Classification of Members of the Group:

Not Applicable

Item 9 Notice of Dissolution of Group:

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.

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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: March 24, 2014

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

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Exhibit Index

Exhibit 1 Joint Filing Agreement dated March 24, 2014 by and among Artisan Partners Limited Partnership, Artisan Investments GP LLC, Artisan Partners Holdings LP, and Artisan Partners Asset Management Inc.

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EXHIBIT 1

#### JOINT FILING AGREEMENT

The undersigned hereby agree to the joint filing of the Schedule 13G to which this Agreement is attached.

Dated: March 24, 2014

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

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