IPG PHOTONICS CORP Form SC 13G February 06, 2013

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.) *

IPG Photonics Corp

(Name of Issuer)

Common Stock

(Title of Class of Securities)

44980X109

(CUSIP Number)

December 31, 2012

(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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CUS	SIP No. 4498	0X1	09 13G	
1	NAME OF REP	ORT	ING PERSON	
	Artisan Pa	rtn	ers Holdings LP	
2	CHECK THE A		OPRIATE BOX IF A MEMBER OF A GROUP	[_] [_]
	Not Applic	abl	е	
3	SEC USE ONL	Υ		
4	CITIZENSHIP Delaware	OR	PLACE OF ORGANIZATION	
		5	SOLE VOTING POWER	
	MBER OF SHARES		None	
BEN		6	SHARED VOTING POWER	
	EACH EPORTING		4,176,800	
	PERSON WITH	7	SOLE DISPOSITIVE POWER	
	MIII		None	
		8	SHARED DISPOSITIVE POWER	
			4,407,350	
9	AGGREGATE A	MOU	NT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
	4,407,350			
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)	
	8.6%			
12	TYPE OF REPO			
	НС			

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(see Instructions) [_] Not Applicable 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 8.6% 12 TYPE OF REPORTING PERSON (see Instructions) HC Page 3 of 16 CUSIP No. 44980X109 13G			
2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (see Instructions) (a) [_] Not Applicable 3 SEC USE ONLY 4 CITIZENSHIP OR PLACE OF ORGANIZATION Wisconsin 5 SOLE VOTING POWER NUMBER OF None SHARES 6 SHARED VOTINS POWER WIND BY EACH 4,176,800 REPORTING PERSON 7 SOLE DISPOSITIVE POWER NONE 8 SHARED DISPOSITIVE POWER 4,407,350 9 ACGRECATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 4,407,350 10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (see Instructions) Not Applicable 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 8.6% 12 TYPE OF REPORTING PERSON (see Instructions) HC Page 3 of 16 CUSIP NO. 44980X109 13C	1 NAME OF REPO	ORTING PERSON	
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9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 4,407,350 10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (see Instructions) [_] Not Applicable 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 8.6% 12 TYPE OF REPORTING PERSON (see Instructions) HC Page 3 of 16 CUSIP No. 44980X109 13G		8 SHARED DISPOSITIVE POWER	
4,407,350 10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (see Instructions) [_] Not Applicable 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 8.6% 12 TYPE OF REPORTING PERSON (see Instructions) HC Page 3 of 16 CUSIP No. 44980X109 13G		4,407,350	
10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (see Instructions) [_] Not Applicable 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 8.6% 12 TYPE OF REPORTING PERSON (see Instructions) HC Page 3 of 16 CUSIP No. 44980X109 13G	9 AGGREGATE AI	MOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
(see Instructions) [_] Not Applicable 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 8.6% 12 TYPE OF REPORTING PERSON (see Instructions) HC Page 3 of 16 CUSIP No. 44980X109 13G	4,407,350		
11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 8.6% 12 TYPE OF REPORTING PERSON (see Instructions) HC Page 3 of 16 CUSIP No. 44980X109 13G			[_]
8.6% 12 TYPE OF REPORTING PERSON (see Instructions) HC Page 3 of 16 CUSIP No. 44980X109 13G	Not Applica	able	
12 TYPE OF REPORTING PERSON (see Instructions) HC Page 3 of 16 CUSIP No. 44980X109 13G	11 PERCENT OF (CLASS REPRESENTED BY AMOUNT IN ROW (9)	
12 TYPE OF REPORTING PERSON (see Instructions) HC Page 3 of 16 CUSIP No. 44980X109 13G	8.6%		
Page 3 of 16 CUSIP No. 44980X109 13G		ORTING PERSON	
Page 3 of 16 CUSIP No. 44980X109 13G	НС		
CUSIP No. 44980X109 13G			
		Page 3 of 16	
	CUSIP No. 4498	0X109 13G	
1 NAME OF REPORTING PERSON	1 NAME OF REP	ORTING PERSON	

3

Artisan Pa	artners Limited Partnership	
2 CHECK THE A	APPROPRIATE BOX IF A MEMBER OF A GROUP	(a) [_] (b) [_]
Not Applic	cable	
3 SEC USE ONI	, _Y	
4 CITIZENSHIP	OR PLACE OF ORGANIZATION	
Delaware		
	5 SOLE VOTING POWER	
NUMBER OF	None	
SHARES BENEFICIALLY	6 SHARED VOTING POWER	
OWNED BY EACH	4,176,800	
REPORTING PERSON	7 SOLE DISPOSITIVE POWER	
WITH	None	
	8 SHARED DISPOSITIVE POWER	
	4,407,350	
9 AGGREGATE A	AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
4,407,350		
10 CHECK BOX I	F THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES	[_]
Not Applic	able	
11 PERCENT OF	CLASS REPRESENTED BY AMOUNT IN ROW (9)	
8.6%		
12 TYPE OF REP (see Instru	PORTING PERSON actions)	
IA		
	Page 4 of 16	
CUSIP No. 4498	30X109 13G	
1 NAME OF REP	ORTING PERSON	

Artisan Investments GP LLC

4

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (see Instructions)		[_]
Not Appli	cable	
3 SEC USE ON	LY	
4 CITIZENSHI	P OR PLACE OF ORGANIZATION	
Delaware		
	5 SOLE VOTING POWER	
NUMBER OF	None	
	6 SHARED VOTING POWER	
OWNED BY EACH	4,176,800	
	7 SOLE DISPOSITIVE POWER	
WITH	None	
	8 SHARED DISPOSITIVE POWER	
	4,407,350	
9 AGGREGATE	AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	
4,407,350		
10 CHECK BOX	IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES uctions)	 [_]
Not Appli	cable	
11 PERCENT OF	CLASS REPRESENTED BY AMOUNT IN ROW (9)	
8.6%		
12 TYPE OF REI	PORTING PERSON uctions)	
НС		
	Page 5 of 16	
	rage 3 of 10	
CUSIP No. 449	80X109 13G	
1 NAME OF RE	PORTING PERSON	
ZFIC, Inc		
2 CHECK THE	APPROPRIATE BOX IF A MEMBER OF A GROUP	

(see Instru	(see Instructions)		
Not Applic	able		
3 SEC USE ONL	Y		
4 CITIZENSHIP	OR PLACE OF ORGANIZATION		
Wisconsin			
	5 SOLE VOTING POWER		
NUMBER OF SHARES	None		
	6 SHARED VOTING POWER		
EACH REPORTING	4,176,800		
PERSON WITH	7 SOLE DISPOSITIVE POWER		
	None		
	8 SHARED DISPOSITIVE POWER		
	4,407,350		
10 CHECK BOX I (see Instru Not Applic			[_]
11 PERCENT OF 8.6%	CLASS REPRESENTED BY AMOUNT IN ROW (9)		
(see Instru	ORTING PERSON ctions)		
HC 			
	Page 6 of 16		
CUSIP No. 4498	0X109 13G		
1 NAME OF REP	ORTING PERSON		
Andrew A.	Ziegler		
2 CHECK THE A	PPROPRIATE BOX IF A MEMBER OF A GROUP	(a)	[_]

Not Applicable						
3 SEC USE ONLY	 Ү					
4 CITIZENSHIP	OR	PLACE OF ORGANIZATION				
U.S.A.						
	5	SOLE VOTING POWER				
NUMBER OF		None				
	6	SHARED VOTING POWER				
OWNED BY EACH		4,176,800				
REPORTING PERSON	7	SOLE DISPOSITIVE POWER				
WITH		None				
	8	SHARED DISPOSITIVE POWER				
		4,407,350				
9 AGGREGATE AN	 MOUI	NT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
4,407,350						
10 CHECK BOX II		HE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES		[_]		
Not Applica	able	9				
11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)						
8.6%	8.6%					
12 TYPE OF REPORTING PERSON (see Instructions)						
IN						
		Page 7 of 16				
CUSIP No. 44980	0X1(13G				
1 NAME OF REPO	ORT	ING PERSON				
Carlene M.	Carlene M. Ziegler					
2 CHECK THE AI		DPRIATE BOX IF A MEMBER OF A GROUP	(a) (b)	[_] [_]		

Not Applicable

3 SEC USE ON	NLY		
4 CITIZENSH	IP OR PLACE OF ORGANIZATION		
U.S.A.			
	5 SOLE VOTING POWER		
NUMBER OF	None		
SHARES BENEFICIALLY	6 SHARED VOTING POWER		
OWNED BY EACH	4,176,800		
REPORTING PERSON	7 SOLE DISPOSITIVE POWER		
WITH	None		
	8 SHARED DISPOSITIVE POWER		
	4,407,350		
9 AGGREGATE	AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		
4,407,350			
10 CHECK BOX (see Inst:	IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES ructions) [_]		
Not Appl:	icable		
11 PERCENT OF	F CLASS REPRESENTED BY AMOUNT IN ROW (9)		
8.6%			
12 TYPE OF REPORTING PERSON (see Instructions)			
IN			
	Page 8 of 16		
Item 1(a) Na	ame of Issuer:		
	IPG Photonics Corp		
Item 1(b) Ac	ddress of Issuer's Principal Executive Offices:		
	50 Old Webster Road, Oxford, MA 01540		
Item 2(a) Na	ame of Person Filing:		
	Artisan Partners Holdings LP ("Artisan Holdings") Artisan Investment Corporation, the general partner of Artisan Holdings ("Artisan Corp.") Artisan Partners Limited Partnership ("Artisan Partners")		

Artisan Investments GP LLC, the general partner of Artisan Partners ("Artisan Investments") ZFIC, Inc., the sole stockholder of Artisan Corp. ("ZFIC") Andrew A. Ziegler Carlene M. Ziegler

Item 2(b) Address of Principal Business Office:

Artisan Holdings, Artisan Corp., Artisan Partners, Artisan Investments, ZFIC,

Mr. Ziegler and Ms. Ziegler are all located at:

875 East Wisconsin Avenue, Suite 800 Milwaukee, WI 53202

Item 2(c) Citizenship:

Artisan Holdings is a Delaware limited partnership Artisan Corp. is a Wisconsin corporation Artisan Partners is a Delaware limited partnership Artisan Investments is a Delaware limited liability company ZFIC is a Wisconsin corporation Mr. Ziegler and Ms. Ziegler are U.S. citizens

Item 2(d) Title of Class of Securities:

Common Stock

Item 2(e) CUSIP Number:

44980X109

(e) Artisan Partners is an investment adviser registered under section 203 of the Investment Advisers Act of 1940; Artisan Holdings is the sole limited partner of Artisan Partners; Artisan Investments is the general partner of Artisan Partners; Artisan Corp is the general partner of Artisan Holdings; ZFIC is the sole stockholder of Artisan Corp.; Mr. Ziegler and Ms. Ziegler are the principal stockholders of ZFIC.

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Item 4 Ownership (at December 31, 2012):

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

4,407,350

(b) Percent of class:

8.6% (based on 51,270,197 shares outstanding as of October $31,\ 2012$)

- (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:

4,176,800

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

None

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

4,407,350

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 Artisan Partners. Persons other than Artisan Partners are entitled to receive all dividends from, and proceeds from the sale of, those shares. None of those persons, to the knowledge of Artisan Partners, Artisan Holdings, Artisan Investments, Artisan Corp., ZFIC, Mr. Ziegler or Ms. Ziegler, has an economic interest in more than 5% of the class.

Not Applicable

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.

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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: February 6, 2013

ARTISAN INVESTMENT CORPORATION, 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*

ZFIC, INC.

By: Gregory K. Ramirez*

ANDREW A. ZIEGLER

Andrew A. Ziegler*

CARLENE M. ZIEGLER

Carlene M. Ziegler*

*By: /s/ Gregory K. Ramirez

Gregory K. Ramirez
Senior Vice President - Chief
Accounting Officer & Assistant
Treasurer of Artisan Investment
Corporation

Vice President of Artisan
Investments GP LLC
Attorney-in-Fact for ZFIC, Inc.
Attorney-in-Fact for Andrew A.
Ziegler

Attorney-in-Fact for Carlene M. Ziegler

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Exhibit Index

- Exhibit 1 Joint Filing Agreement dated February 6, 2013 by and among Artisan Partners Holdings LP, Artisan Investment Corporation, Artisan Partners Limited Partnership, Artisan Investments GP LLC, ZFIC, Inc., Andrew A. Ziegler and Carlene M. Ziegler
- Exhibit 2 Power of Attorney of ZFIC, Inc., dated August 31, 2012
- Exhibit 3 Power of Attorney of Andrew A. Ziegler dated August 31, 2012
- Exhibit 4 Power of Attorney of Carlene M. Ziegler dated August 31, 2012

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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: February 6, 2013

ARTISAN INVESTMENT CORPORATION, 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*

ZFIC, INC.

By: Gregory K. Ramirez*

ANDREW A. ZIEGLER

Andrew A. Ziegler*

CARLENE M. ZIEGLER

Carlene M. Ziegler*

*By: /s/ Gregory K. Ramirez

Gregory K. Ramirez
Senior Vice President - Chief
Accounting Officer & Assistant
Treasurer of Artisan Investment
Corporation

Vice President of Artisan Investments GP LLC Attorney-in-Fact for ZFIC, Inc. Attorney-in-Fact for Andrew A. Ziegler

Attorney-in-Fact for Carlene M. Ziegler

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EXHIBIT 2

POWER OF ATTORNEY

The undersigned, ZFIC, Inc., hereby appoints Charles J. Daley, Jr., Sarah A. Johnson, Gregory K. Ramirez and Rebecca Himmelspach, and each of them individually, its true and lawful attorney-in-fact and agent, with full power to execute and file with the United States Securities and Exchange Commission and any stock exchange or similar authority, for and on its behalf in any and all capacities, any and all reports required to be filed pursuant to Section 13 of the Securities Exchange Act of 1934 and the rules thereunder, including but not limited to reports on Schedule 13D or 13G, any and all amendments to such reports, with all exhibits, and any other forms or documents as may be necessary in connection with the filing of such reports with the United States Securities and Exchange Commission and any stock exchange or similar authority, granting unto said attorney full power and authority to do and perform any and all acts for and on behalf of the undersigned which may be necessary or desirable to complete, as fully as the undersigned might or could do in person.

This Power of Attorney shall remain in full force and effect until revoked by the undersigned in a signed writing delivered to the foregoing attorneys-in-fact and agents.

IN WITNESS WHEREOF the undersigned has caused this Power of Attorney to be executed this 31st day of August, 2012.

ZFIC, INC.

By: /s/ Andrew A. Ziegler

Andrew A. Ziegler

Vice President

STATE OF WISCONSIN)

OUNTY OF MILWAUKEE)

I, Lisa Moran, a Notary Public in and for the County of Milwaukee, State of Wisconsin, DO HEREBY CERTIFY that Andrew A. Ziegler, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he signed and delivered the said instrument as his own free and voluntary act, for the uses and purposes therein set forth.

Given under my hand and notarial seal, this 31st day of August, 2012.

/s/ Lisa Moran
----Notary Public

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EXHIBIT 3

POWER OF ATTORNEY

The undersigned, Andrew A. Ziegler, hereby appoints Charles J. Daley, Jr., Sarah A. Johnson, Gregory K. Ramirez and Rebecca Himmelspach, and each of them individually, his true and lawful attorney-in-fact and agent, with full power to execute and file with the United States Securities and Exchange Commission

and any stock exchange or similar authority, for and on his behalf in any and all capacities, any and all reports required to be filed pursuant to Section 13 of the Securities Exchange Act of 1934 and the rules thereunder, including but not limited to reports on Schedule 13D or 13G, any and all amendments to such reports, with all exhibits, and any other forms or documents as may be necessary in connection with the filing of such reports with the United States Securities and Exchange Commission and any stock exchange or similar authority, granting unto said attorney full power and authority to do and perform any and all acts for and on behalf of the undersigned which may be necessary or desirable to complete, as fully as the undersigned might or could do in person.

This Power of Attorney shall remain in full force and effect until revoked by the undersigned in a signed writing delivered to the foregoing attorneys-in-fact and agents.

IN WITNESS WHEREOF the undersigned has caused this Power of Attorney to be executed this 31st day of August, 2012.

STATE OF WISCONSIN)

ON SS.

COUNTY OF MILWAUKEE)

I, Lisa Moran, a Notary Public in and for the County of Milwaukee, State of Wisconsin, DO HEREBY CERTIFY that Andrew A. Ziegler, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he signed and delivered the said instrument as his own free and voluntary act, for the uses and purposes therein set forth.

Given under my hand and notarial seal, this 31st day of August, 2012.

/s/ Lisa Moran
----Notary Public

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EXHIBIT 4

POWER OF ATTORNEY

The undersigned, Carlene M. Ziegler, hereby appoints Charles J. Daley, Jr., Sarah A. Johnson, Gregory K. Ramirez and Rebecca Himmelspach, and each of them individually, her true and lawful attorney-in-fact and agent, with full power to execute and file with the United States Securities and Exchange Commission and any stock exchange or similar authority, for and on her behalf in any and all capacities, any and all reports required to be filed pursuant to Section 13 of the Securities Exchange Act of 1934 and the rules thereunder, including but not limited to reports on Schedule 13D or 13G, any and all amendments to such reports, with all exhibits, and any other forms or documents as may be necessary in connection with the filing of such reports with the United States Securities and Exchange Commission and any stock exchange or similar authority, granting unto said attorney full power and authority to do and perform any and all acts for and on behalf of the undersigned which may be necessary or desirable to complete, as fully as the undersigned might or could do in person.

This Power of Attorney shall remain in full force and effect until revoked by the undersigned in a signed writing delivered to the foregoing attorneys-in-fact and agents.

IN WITNESS WHEREOF the undersigned has caused this Power of Attorney to be executed this 31st day of August, 2012.

/s/ Carlene M. Ziegler
-----Carlene M. Ziegler

STATE OF WISCONSIN)

ON SS.

COUNTY OF MILWAUKEE)

I, Lisa Moran, a Notary Public in and for the County of Milwaukee, State of Wisconsin, DO HEREBY CERTIFY that Carlene M. Ziegler, who is personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that she signed and delivered the said instrument as her own free and voluntary act, for the uses and purposes therein set forth.

Given under my hand and notarial seal, this 31st day of August, 2012.

/s/ Lisa Moran
----Notary Public

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