

SCHEDULE 13G Under the Securities Exchange Act of 1934

Amendment No.: 0*

Name of Issuer: XPERI CORPORATION

Title of Class of Securities: Common Stock

CUSIP Number: 98421B100

Date of Event Which Requires Filing of this Statement: 12/31/2017

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

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).

CUSIP No.: 98421B100

1. NAME OF REPORTING PERSON S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON Janus Henderson Group plc EIN #00-0000000

2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP a. ___ b. ___

3. SEC USE ONLY

4. CITIZENSHIP OR PLACE OF ORGANIZATION Jersey, Channel Islands

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:

5. SOLE VOTING POWER 0**

6. SHARED VOTING POWER 3,688,506**

7. SOLE DISPOSITIVE POWER 0**

8. SHARED DISPOSITIVE POWER 3,688,506**

9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 3,688,506**

10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES N/A

11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 7.5%**

12. TYPE OF REPORTING PERSON IA, HC

** See Item 4 of this filing

CUSIP No.: 98421B100

1. NAME OF REPORTING PERSON S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON Janus Henderson Triton Fund 01-0825912

2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP a. ___ b. ___

3. SEC USE ONLY

4. CITIZENSHIP OR PLACE OF ORGANIZATION Massachusetts

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:

5. SOLE VOTING POWER 2,606,634**

6. SHARED VOTING POWER 0**

7. SOLE DISPOSITIVE POWER 2,606,634**

8. SHARED DISPOSITIVE POWER 0**

9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON
2,606,634**

10. CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES
N/A

11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 5.3%**

12. TYPE OF REPORTING PERSON IV

** See Item 4 of this filing

Item 1. (a). Name of Issuer: XPERI CORPORATION ("Xperi")

(b). Address of Issuer's Principal Executive Offices:

3025 Orchard Parkway San Jose, CA 95134

Item 2. (a)-(c). Name, Principal Business Address, and Citizenship of
Persons Filing:

(1) Janus Henderson Group plc 201 Bishopsgate EC2M 3AE, United Kingdom
Citizenship: Jersey, Channel Islands

(2) Janus Henderson Triton Fund 151 Detroit Street Denver, Colorado
80206 Citizenship: Massachusetts

(d). Title of Class of Securities: Common Stock

(e). CUSIP Number: 98421B100

Item 3.

This statement is filed pursuant to Rule 13d-1 (b) or 13d-2(b) and the
person filing, Janus Henderson Group plc ("Janus Henderson"), is a parent
holding company/control person in accordance with Section
240.13d-1(b)(ii)(G). See Item 4 for additional information. Janus
Henderson Triton Fund is an Investment Company registered under Section
8 of the Investment Company Act of 1940.

Item 4. Ownership

The information in items 1 and 5 through 11 on the cover page(s) on
Schedule 13G is hereby incorporated by reference.

Janus Henderson has an indirect 97.11% ownership stake in Intech
Investment Management LLC ("Intech") and a 100% ownership stake in Janus
Capital Management LLC ("Janus Capital"), Perkins Investment Management
LLC ("Perkins"), Geneva Capital Management LLC ("Geneva"), Henderson
Global Investors Limited ("HGIL"), Janus Henderson Investors Australia
Institutional Funds Management Limited ("HGIAIFML") and Henderson Global
Investors North America Inc ("HGINA"), (each an "Asset Manager" and
collectively as the "Asset Managers"). Due to the above ownership
structure, holdings for the Asset Managers are aggregated for purposes
of this filing. Each Asset Manager is an investment adviser registered
or authorized in its relevant jurisdiction and each furnishing
investment advice to various fund, individual and/or institutional
clients (collectively referred to herein as "Managed Portfolios").

As a result of its role as investment adviser or sub-adviser to the
Managed Portfolios, Janus Capital may be deemed to be the beneficial
owner of 3,688,506 shares or 7.5% of the shares outstanding of Xperi
Common Stock held by such Managed Portfolios. However, Janus Capital
does not have the right to receive any dividends from, or the proceeds
from the sale of, the securities held in the Managed Portfolios and
disclaims any ownership associated with such rights.

Janus Henderson Triton Fund is an investment company registered under
the Investment Company Act of 1940 and is one of the Managed Portfolios
to which Janus Capital provides investment advice.

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 Managed Portfolios, set forth in Item 4 above, have the right to

receive all dividends from, and the proceeds from the sale of, the securities held in their respective accounts.

The interest of one person, Janus Henderson Triton Fund, an investment company registered under the Investment Company Act of 1940, in Xperi Common Stock amounted to 2,606,634 shares or 5.3% of the total outstanding Common Stock.

These shares were acquired in the ordinary course of business, and not with the purpose of changing or influencing control of the Issuer.

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by the Parent Holding Company

Janus Capital, Intech, Perkins, Geneva, HGIL, HGIAIFML and HGINA are indirect subsidiaries of Janus Henderson and are registered investment advisers furnishing investment advice to Managed Portfolios.

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 in the ordinary course of business and were not acquired for the purpose of and do not have the effect of changing or influencing the control of the issuer of such securities and were not acquired in connection with or as a participant in any transaction having such purposes or effect.

SIGNATURES

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.

JANUS HENDERSON GROUP PLC

By /s/ Bruce Koepfgen
Bruce Koepfgen, Head of North America
Date 2/12/2018

JANUS HENDERSON TRITON FUND

By /s/ Susan K. Wold
Susan K. Wold, Chief Compliance Officer
Date 2/12/2018

EXHIBIT A JOINT FILING AGREEMENT

In accordance with Rule 13d-1(k) under the Securities Exchange Act of 1934, the persons named below agree to the joint filing on behalf of each of them of a Statement on Schedule 13G (including amendments thereto) with respect to the Common Stock of XPERI CORPORATION and further agree that this Joint Filing Agreement be included as an Exhibit to such joint filings. In evidence thereof, the undersigned hereby execute this Agreement as of the 12th day of February, 2018.

JANUS HENDERSON GROUP PLC

By /s/ Bruce Koepfgen
Bruce Koepfgen, Head of North America

JANUS HENDERSON TRITON FUND

By /s/ Susan K. Wold
Susan K. Wold, Chief Compliance Officer