

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

**Form 20-F/A  
Amendment No. 1**

(Mark One)

- REGISTRATION STATEMENT PURSUANT TO SECTION 12(b) OR 12(g) OF THE SECURITIES EXCHANGE ACT OF 1934  
or  
 ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934  
For the fiscal year ended December 31, 2017  
or  
 TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934  
For the transition period from [ ] to [ ]  
or  
 SHELL COMPANY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934  
Date of event requiring this shell company report \_\_\_\_\_  
For the transition period from [ ] to [ ]  
Commission file number: 001-35053

**InterXion Holding N.V.**  
(Exact name of registrant as specified in its charter)

The Netherlands  
(Jurisdiction of incorporation or organization)

Scorpius 30  
2132 LR Hoofddorp  
The Netherlands  
+31 20 880 7600

(Name, Telephone, E-mail and/or Facsimile number and Address of Company Contact Person)

Securities registered or to be registered pursuant to Section 12(b) of the Act:

Title of Each Class	Name of Each Exchange on Which Registered
Ordinary shares, with a nominal value of €0.10 each	New York Stock Exchange

Securities registered or to be registered pursuant to Section 12(g) of the Act:

None  
(Title of Class)

Securities for which there is a reporting obligation pursuant to Section 15(d) of the Act:

None  
(Title of Class)

Indicate the number of outstanding shares of each of the issuer's classes of capital or common stock as of the close of the period covered by the annual report:

71,414,513 ordinary shares

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act: Yes  No

If this report is an annual or transition report, indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934. Yes  No

Note—Checking the box above will not relieve any registrant required to file reports pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934 from their obligations under those Sections.

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes  No

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes  No

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or an emerging growth company. See definition of “large accelerated filer”, “accelerated filer” and “emerging growth company” in Rule 12b-2 of the Exchange Act.

Large accelerated filer  Accelerated filer  Non-accelerated filer  Emerging growth company

If an emerging growth company that prepares its financial statements in accordance with U.S. GAAP, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards<sup>†</sup> provided pursuant to Section 13(a) of the Exchange Act.

<sup>†</sup> The term “new or revised financial accounting standard” refers to any update issued by the Financial Accounting Standards Board to its Accounting Standards Codification after April 5, 2012.

Indicate by check mark which basis of accounting the registrant has used to prepare the financial statements included in this filing:

U.S. GAAP  International Financial Reporting Standards as issued  
by the International Accounting Standards Board  Other

If “Other” has been checked in response to the previous question, indicate by check mark which financial statement item the registrant has elected to follow: Item 17  Item 18

If this is an annual report, indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes  No

---

---

---

### Explanatory Note

InterXion Holding N.V. (the “Company”) is filing this Amendment No. 1 (the “Form 20-F/A”) to its Annual Report on Form 20-F for the year ended December 31, 2017 (the “Form 20-F”), which was filed with the Securities and Exchange Commission on April 30, 2018, to submit the Interactive Data File (as defined in Rule 11 of Regulation S-T) with respect to the audited consolidated financial statements of the Company and its consolidated subsidiaries for that fiscal year as an exhibit to the Form 20-F pursuant to paragraph 101 under “Instructions as to Exhibits” of Form 20-F in accordance with Rule 405 of Regulation S-T. Exhibit 101 was omitted from the Form 20-F in accordance with the 30-day grace period provided under Rule 405(a)(2)(ii) of Regulation S-T.

Except as set forth above, this Form 20-F/A does not modify or update any of the information in the Form 20-F. This Form 20-F/A speaks as of the time of filing of the Form 20-F, does not reflect events that may have occurred subsequent to such filing, and does not modify or update in any way information made in the Form 20-F.

---

**ITEM 19. EXHIBITS**

The following is a list of exhibits filed as part of this Amendment No.1 to the Company's Annual Report on Form 20-F:

<u>Exhibit number:</u>	<u>Description of document:</u>
101.INS*	XBRL Instance Document
101.SCH*	XBRL Taxonomy Extension Schema Document
101.CAL*	XBRL Taxonomy Extension Calculation Linkbase Document
101.DEF*	XBRL Taxonomy Extension Definition Linkbase Document
101.LAB*	XBRL Taxonomy Extension Label Linkbase Document
101.PRE*	XBRL Taxonomy Extension Presentation Linkbase Document

\* In accordance with Rule 406T(b)(2) of Regulation S-T, this eXtensible Business Reporting Language (XBRL) information is furnished and not filed or part of a registration statement or prospectus for purpose of Section 11 or 12 of the Securities Act of 1933, as amended, are deemed not filed for purposes of Section 18 of the Exchange Act of 1934, as amended, and otherwise are not subject to liability under those sections.

---

**Signature**

The registrant hereby certifies that it meets all of the requirements for filing on Form 20-F and that it has duly caused and authorized the undersigned to sign this Amendment No. 1 to the Annual Report on Form 20-F on its behalf.

**INTERXION HOLDING N.V.**

/s/ David C. Ruberg

*Name: David C. Ruberg*

*Title: Chief Executive Officer*

*Date: May 30, 2018*