

SECURITIES AND EXCHANGE COMMISSION

FORM 6-K

Current report of foreign issuer pursuant to Rules 13a-16 and 15d-16 Amendments

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AIXTRON SE

CIK: **1089496** | IRS No.: **000000000**

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SIC: **3559** Special industry machinery, nec

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SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 6-K

**Report of Foreign Private Issuer
Pursuant to Rule 13a-16 or 15d-16 of the
Securities Exchange Act of 1934**

Commission File No. 000-51196

For the month of January, 2013

AIXTRON SE

(Translation of registrant's name into English)

Kaiserstr. 98
52134 Herzogenrath
Germany

(Address of principal executive offices)

Indicate by check mark whether the registrant files or will file annual reports under cover of Form 20-F or Form 40-F.

Form 20-F

Form 40-F

Indicate by check mark whether the registrant by furnishing the information contained in this Form is also thereby furnishing the information to the Commission pursuant to Rule 12g3-2(b) under the Securities Exchange Act of 1934.

Yes

No

If "Yes" is marked, indicate below the file number assigned to the registrant in connection with Rule 12g3-2(b): N/A

AIXTRON SE: Publication according to § 26 paragraph. 1 WpHG with the objective of Europe-wide distribution
On January 18, 2013, BlackRock Financial Management, Inc., New York, NY, U.S.A. has informed us according to Article 21, Section 1 of the WpHG that via shares its Voting Rights on AIXTRON SE, Herzogenrath, Deutschland, have exceeded the 3% threshold of the Voting Rights on January 16, 2013 and on that day amounted to 3.05% (this corresponds to 3111945 Voting Rights). According to Article 22, Section 1, Sentence 1, No. 6 in connection with sentence 2 of the WpHG, 3.05% of the Voting Rights (this corresponds to 3111945 Voting Rights) is to be attributed to the company. Furthermore, on January 18, 2013, BlackRock Holdco 2, Inc., Wilmington, DE, U.S.A. has informed us according to Article 21, Section 1 of the WpHG that via shares its Voting Rights on AIXTRON SE, Herzogenrath, Deutschland, have exceeded the 3% threshold of the Voting Rights on January 16, 2013 and on that day amounted to 3.05% (this corresponds to 3111945 Voting Rights). According to Article 22, Section 1, Sentence 1, No. 6 in connection with sentence 2 of the WpHG, 3.05% of the Voting Rights (this corresponds to 3111945 Voting Rights) is to be attributed to the company. Furthermore, on January 18, 2013, BlackRock Inc., New York, NY, U.S.A. has informed us according to Article 21, Section 1 of the WpHG that via shares its Voting Rights on AIXTRON SE, Herzogenrath, Deutschland, have exceeded the 3% threshold of the Voting Rights on January 16, 2013 and on that day amounted to 3.05% (this corresponds to 3111945 Voting Rights). According to Article 22, Section 1, Sentence 1, No. 6 in connection with sentence 2 of the WpHG, 3.05% of the Voting Rights (this corresponds to 3111945 Voting Rights) is to be attributed to the company.

SIGNATURE

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, hereunto duly authorized.

AIXTRON SE

Date: January 22, 2013

By: /s/ Paul Hyland
Name: Paul Hyland
Title: President and CEO

By: /s/ Wolfgang Breme
Name: Wolfgang Breme
Title: CFO