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

FORM 6-K

**REPORT OF FOREIGN PRIVATE ISSUER PURSUANT TO RULE 13a-16
OR 15d-16 UNDER THE SECURITIES EXCHANGE ACT OF 1934**

For the month of December 2017

Commission File Number: 001-36826

ADVANCED ACCELERATOR APPLICATIONS S.A.
(Exact name of registrant as specified in its charter)

**20 rue Diesel
01630 Saint Genis Pouilly, France
(Address of principal executive office)**

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 if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(1):

Yes No

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(7):

Yes No

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, thereunto duly authorized.

ADVANCED ACCELERATOR APPLICATIONS S.A.

By: /s/ Heinz Mäusli
Name: Heinz Mäusli
Title: Chief Financial Officer

Date: December 5, 2017

ADVANCED ACCELERATOR APPLICATIONS S.A.

EXHIBIT INDEX

Exhibit No.	Description
99.1	Press Release dated December 5, 2017 titled “Advanced Accelerator Applications Board of Directors Recommends \$3.9 Billion All Cash Tender Offer by Novartis”



PRESS RELEASE

Advanced Accelerator Applications Board of Directors Recommends \$3.9 Billion All Cash Tender Offer by Novartis

December 5, 2017, Saint-Genis-Pouilly, France - Advanced Accelerator Applications S.A. (NASDAQ:AAAP) (AAA or the Company), a leader in nuclear medicine theragnostics, today announced that its Board of Directors, following the completion of the information and consultation of the Company's works council, has (i) determined that the transactions contemplated in the Memorandum of Understanding entered into with Novartis AG (NYSE: NVS) on October 28, 2017 (the "Memorandum of Understanding"), including the cash tender offer described in the subsequent paragraph, are (x) consistent with and will further the business objectives and goals of the Company, (y) advisable and (z) in the best interests of the Company, its stockholders, other stakeholders and its employees, (ii) approved and adopted the transactions contemplated by the Memorandum of Understanding and (iii) determined to recommend that the Company's stockholders support the offer, accept the offer and tender their shares in the offer.

Pursuant to the Memorandum of Understanding, no later than December 7, 2017, Novartis Groupe France S.A., a direct and indirect wholly owned subsidiary of Novartis will make a cash tender offer to acquire all the outstanding shares of AAA, including shares represented by American Depositary Shares (the "ADSs"), for \$41 per ordinary share and \$82 per ADS (each representing 2 ordinary shares), in a transaction that is valued at approximately \$3.9 billion. The transaction is subject to customary transactional regulatory approvals.

Transaction Terms

The tender offer will be implemented in accordance with the terms and conditions of the binding Memorandum of Understanding between Advanced Accelerator Applications and Novartis. In addition to the offer terms, the Memorandum of Understanding contains representations, warranties and undertakings by Advanced Accelerator Applications and Novartis typical in similar transactions. The Memorandum of Understanding may be terminated by Advanced Accelerator Applications or Novartis under certain circumstances prior to the commencement or completion of the tender offer, including, for example, a material breach by either party of the terms and conditions of the Memorandum of Understanding prior to the commencement of the tender offer, the Board of Directors of AAA amending its recommendation in a manner adverse to Novartis, non-receipt of customary transactional regulatory approvals and certain other circumstances. The parties have further agreed on certain expense reimbursement and termination fees payable by AAA to Novartis under certain circumstances, including, if the Board of Directors of AAA subsequently changes or withdraws its recommendation.



Advisors

Jefferies LLC acted as exclusive financial advisor to AAA.

Davis Polk & Wardwell LLP is serving as legal counsel to AAA.

About Advanced Accelerator Applications S.A.

Advanced Accelerator Applications (NASDAQ:AAAP) is an innovative radiopharmaceutical company developing, producing and commercializing molecular nuclear medicine theragnostics. AAA's theragnostic platform is based on radiolabeling a targeting molecule with either gallium Ga 68 for diagnostic use, or lutetium Lu 177 for therapy. AAA's first theragnostic pairing for neuroendocrine tumors includes diagnostic drugs NETSPOT[®] in the US and SomaKit TOC[™] in Europe; and therapeutic USAN: lutetium Lu 177 dotatate/INN: lutetium (¹⁷⁷Lu) oxodotreotide (LUTATHERA[®]), which is approved for use in Europe and currently under review with the FDA. Additional theragnostics in development target gastrointestinal stromal tumors (GIST), and prostate and breast cancer. AAA is also an established leader in molecular nuclear diagnostic radiopharmaceuticals for PET and SPECT, mainly used in clinical oncology, cardiology and neurology. Headquartered in Saint-Genis-Pouilly, France, AAA currently has 21 production and R&D facilities, and more than 600 employees in 13 countries (France, Italy, the UK, Germany, Switzerland, Spain, Poland, Portugal, The Netherlands, Belgium, Israel, the US and Canada). AAA reported sales of €109.3 million in 2016 (+23% vs. 2015) and €106.4 million for the first 9 months of 2017 (+31% vs. first 9 months of 2016). AAA is listed on the Nasdaq Global Select Market under the ticker "AAAP". For more information, please visit: www.adacap.com.

Additional Information

This press release is neither an offer to purchase nor a solicitation of an offer to sell securities. The tender offer for the outstanding ordinary shares and American Depositary Shares of AAA described in this press release has not commenced. At the time the tender offer is commenced, Novartis and Novartis Groupe France S.A., a direct and indirect wholly owned subsidiary of Novartis ("Purchaser") will file, or will cause to be filed, a Schedule TO Tender Offer Statement with the U.S. Securities and Exchange Commission (the "SEC") and AAA will file a Schedule 14D-9 Solicitation/Recommendation Statement with the SEC, in each case with respect to the tender offer. The Schedule TO Tender Offer Statement (including an offer to purchase, a related letter of transmittal and other offer documents) and the Schedule 14D-9 Solicitation/Recommendation Statement will contain important information that should be read carefully before any decision is made with respect to the tender offer. Those materials and all other documents filed by, or caused to be filed by, Novartis and Purchaser with the SEC will be available at no charge on the SEC's website at www.sec.gov. The Schedule TO Tender Offer Statement and related materials may be obtained for free under the "Investors – Financial Data" section of Novartis website at <https://www.novartis.com/investors/financial-data/sec-filings>. The Schedule 14D-9 Solicitation/Recommendation Statement and such other documents may be obtained for free from the Company under the "Investor Relations" section of the Company's website at <http://investorrelations.adacap.com/>.



Cautionary Statement Regarding Forward-Looking Statements

This press release contains forward-looking statements. All statements, other than statements of historical facts, contained in this press release, including statements regarding the Company's strategy, future operations, future financial position, future revenues, projected costs, prospects, plans and objectives of management, are forward-looking statements. The words "anticipate," "believe," "estimate," "expect," "intend," "may," "plan," "predict," "project," "target," "potential," "will," "would," "could," "should," "continue," and similar expressions are intended to identify forward-looking statements, although not all forward-looking statements contain these identifying words. Forward-looking statements that appear in a number of places in this press release include the Company's current expectation regarding future events and various matters, including the transaction, expected timing of filings with the FDA and EMA, and approval dates. These forward-looking statements involve risks and uncertainties that may cause actual results, events or developments to be materially different from any future results, events or developments expressed or implied by such forward-looking statements. Such factors include, but are not limited to, the ability of the parties to complete the transaction on a timely basis or at all, changing market conditions, the successful and timely completion of clinical studies, the timing of our submission of applications for regulatory approvals, EMA, FDA and other regulatory approvals for our product candidates, the occurrence of side effects or serious adverse events caused by or associated with our products and product candidates; our ability to procure adequate quantities of necessary supplies and raw materials for USAN: lutetium Lu 177 dotatate/INN: lutetium (¹⁷⁷Lu) oxodotreotide (LUTATHERA[®]) and other chemical compounds acceptable for use in our manufacturing processes from our suppliers; our ability to organize timely and safe delivery of our products or product candidates by third parties; any problems with the manufacture, quality or performance of our products or product candidates; the rate and degree of market acceptance and the clinical utility of USAN: lutetium Lu 177 dotatate/INN: lutetium (¹⁷⁷Lu) oxodotreotide (LUTATHERA[®]) and our other products or product candidates; our estimates regarding the market opportunity for USAN: lutetium Lu 177 dotatate/INN: lutetium (¹⁷⁷Lu) oxodotreotide (LUTATHERA[®]), our other product candidates and our existing products; our anticipation that we will generate higher sales as we diversify our products; our ability to implement our growth strategy including expansion in the US; our ability to sustain and create additional sales, marketing and distribution capabilities; our intellectual property and licensing position; legislation or regulation in countries where we sell our products that affect product pricing, taxation, reimbursement, access or distribution channels; regulatory actions or litigation; and general economic, political, demographic and business conditions in Europe, the US and elsewhere. Except as required by applicable securities laws, we undertake no obligation to publicly update or revise any forward-looking statements, whether as a result of new information, future events or otherwise.

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