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 March 2022

Commission File Number: 001-38281

ERYTECH Pharma S.A.

(Translation of registrant's name into English)

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60 Avenue Rockefeller
69008 Lyon 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 S **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): £

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): £

INCORPORATION BY REFERENCE

This Report on Form 6-K and all exhibits to this Report on Form 6-K shall be deemed to be incorporated by reference into the registration statements on Form F-3 (File Nos. 333-248953 and 333-259690) and registration statements on Form S-8 (File Nos. 333-222673, 333-232670, 333-239429 and 333-255900), of ERYTECH Pharma S.A. (the "Company") (including any prospectuses forming a part of such registration statements) and to be a part thereof from the date on which this report is filed, to the extent not superseded by documents or reports subsequently filed or furnished.

INFORMATION CONTAINED IN THIS REPORT ON FORM 6-K

Press Release

On March 11, 2022, ERYTECH Pharma S.A. issued a press release to provide a business update and an update on its cash position at the end of December 2021.

A copy of this press release is attached to this Form 6-K as Exhibit 99.1.

EXHIBITS

Exhibit	Description
99.1	Press Release dated March 11, 2022.

SIGNATURES

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.

ERYTECH Pharma S.A.

Date: March 14, 2022

By: /s/ Eric Soyer

Name Eric Soyer

Title: Chief Financial Officer and Chief Operating Officer

PRESS RELEASE

ERYTECH Provides Business and Financial Update for the Fourth Quarter and Full Year 2021

Conference call and webcast on Tuesday, March 14, 2022
at 8:30am EDT / 1:30pm CET

- **Progress towards seeking approval of GRASPA® for the treatment of ALL patients with hypersensitivity to pegylated asparaginase; BLA almost ready to submit pending FDA's acceptance to file application**
- **Final results of Phase 3 trial in second-line pancreatic cancer presented as oral presentation at ASCO GI**
- **Interim result of Phase 1 IST in first-line pancreatic cancer presented at ASCO GI**
- **Valuable strategic options and partnering alternatives under review**
- **Cash and cash equivalents of €33.7 million ($38.1 million) at the end of December 2021**

Cambridge, MA (U.S.) and Lyon (France), March 11, 2022 – ERYTECH Pharma (Nasdaq & Euronext: ERYP), a clinical-stage biopharmaceutical company developing innovative therapies by encapsulating therapeutic drug substances inside red blood cells, today provided a business update and an update on its cash position at the end of December 2021.

"Notwithstanding the setback of our Phase 3 trial in pancreatic cancer not meeting its primary endpoint, 2021 has been a year of important achievement for Erytech," **said Gil Beyen, CEO of ERYTECH.** *"We are very encouraged by the progress we are making towards seeking an approval for our lead product candidate GRASPA® for the treatment of ALL patients who experienced hypersensitivities to pegylated asparaginase. Our BLA is ready to be submitted quickly once the FDA will have completed its review of the last information requests and gives us the green light to submit. The review of our strategic options is advancing well and different partnering discussions are in advanced stages of negotiation."*

Business Highlights

- **Path to BLA in hypersensitive ALL, based on results of NOPHO-sponsored Phase 2 trial**

  The NOPHO trial evaluated the safety and pharmacological profile of eryaspase in acute lymphoblastic leukemia (ALL) patients who had previously experienced hypersensitivity reactions to pegylated asparaginase therapy. In December 2020, positive trial results were presented at the 2020 American Society of Hematology annual meeting.

  Eryaspase, also referred to as GRASPA®, its recently approved invented name, in combination with chemotherapy and administered every two weeks, provided a sustained asparaginase enzyme activity level, and was generally well tolerated with few hypersensitivity reactions.

  - The Company pursues its interactions with the U.S. Food and Drug Administration (FDA) regarding a potential regulatory approval in this indication based on the NOPHO-sponsored trial. A pre-BLA meeting to discuss the submission of a Biologics License Application (BLA) took place in June 2021 after which the Company confirmed its intention to submit a BLA subject to successful completion of remaining activities.

- In July 2021, the Company announced that the FDA had granted eryaspase Fast Track designation for the treatment of ALL patients who have developed hypersensitivity reactions to *E.coli*-derived pegylated asparaginase.

The BLA application is now almost completed, allowing a fast submission once the FDA has finalized its review of the remaining information requests and gives the green light to file.

- **TRYbeCA-1, pivotal Phase 3 clinical trial in second-line advanced pancreatic cancer**

As reported in October 2021, the Phase 3 TRYbeCA-1 trial did not meet the primary efficacy endpoint of overall survival (OS). The median OS for patients treated with eryaspase plus chemotherapy was 7.5 months, compared to 6.7 months for chemotherapy alone, with an OS hazard ratio (HR) of 0.92 in the intent-to-treat (ITT) population (p-value 0.375).

- The prespecified subgroup of patients treated with eryaspase and FOLFIRI, an irinotecan-based chemotherapy, demonstrated a nominal increase in median OS of 2.3 months, from 5.7 to 8 months (HR = 0.77; per protocol population), which the Company believes merits further investigation.

- Patients treated with eryaspase demonstrated improved disease control compared to patients treated with chemotherapy only. Other secondary endpoints showed nominal improvement.

- The safety profile of eryaspase was consistent with earlier clinical trials results and safety reviews.

- Final data of the trial were presented as a late-breaking oral presentation at ASCO-GI in January 2022.

Potential continuation of development in pancreatic cancer was discussed with Key Opinion Leaders, who confirmed that further exploration of the combination of eryaspase with irinotecan- and fluoropyrimidine-based chemotherapy is of interest, and who recommended to consider further development in later lines of treatment.

- **rESPECT, Phase 1 investigator-sponsored trial (IST) in first-line pancreatic cancer**

rESPECT is a Phase 1 trial, sponsored by the Georgetown Lombardi Comprehensive Cancer Center, evaluating the safety of eryaspase in combination with mFOLFIRINOX as a first-line treatment for locally advanced and metastatic pancreatic cancer in approximately 18 patients.

- Patient enrollment started in January 2021, and the first dose cohort (75 U/kg) of three patients was enrolled by the end of February. No dose-limiting toxicity (DLT) was observed, and the trial was escalated to the next dosing cohort (100 U/kg).

- After review of the safety data in the first two dose cohorts, the dose escalation committee concluded that the novel combination of mFOLFIRINOX plus eryaspase was well tolerated with no dose limiting toxicity. Consequently, the maximum tolerated dose (MTD) was determined at a dose of 100 U/kg eryaspase.

- Interim data, presented as ASCO GI in January 2022, confirmed the acceptable safety profile and showed encouraging clinical activity. Out of the twelve patients enrolled, ten patients have been evaluated for response. They all achieved disease control; five patients with objective response and five with stable disease.

The trial will continue enrolling up to approximately 18 patients. Reporting of final data is expected in the third quarter of 2022.

- **TRYbeCA-2, randomized Phase 2 clinical trial in triple-negative breast cancer (TNBC)**

  The TRYbeCA-2 trial is evaluating eryaspase in combination with gemcitabine and carboplatin chemotherapy, compared to chemotherapy alone, in metastatic TNBC. Target enrollment is approximately 64 patients. The primary end point of the trial is objective response rate.

  – Following the disappointing results of eryaspase in combination with a gemcitabine-based chemotherapy in the TRYbeCA-1 trial in second-line pancreatic cancer, the Company has, in consultation with the trial's Steering Committee, decided to stop further enrollment in the TRYbeCA-2 trial.

  The results of the patients enrolled in the TRYbeCA-2 trial to date are expected to be reported around mid 2022.

- **Process to review strategic options and partnering alternatives ~~w~~ell advanced**

  As announced on October 25th 2021, the Company has appointed a specialized advisor to evaluate its strategic and partnering options. The process is ongoing and different partnering opportunities are in advanced stage of negotiations.

Update on Q4 2021 Financial Results and Cash Position

- As of December 31, 2021, ERYTECH had cash and cash equivalents totaling €33.7 million (approximately $38.1 million), compared with €44.4 million as of December 31, 2020 and €38.0 million on September 30, 2021. The €10.7 million decrease in cash position during the twelve months of 2021 was the result of a €57.1 million net cash utilization in operating activities and investing activities and €44.7 million generated in financing activities, including €34.6 million in combined net proceeds from the at-the-market (ATM) equity financing program, two Registered Direct offerings in April ($30M) and December ($7.85M), and €11.4 million from the drawdown of four tranches of convertible notes (OCABSA), while the variation of the U.S. dollar against the euro led to a €1.3 million positive currency exchange impact.

- The Company believes that its current cash position, without considering future proceeds from potential strategic options, can fund its planned operating expenses and current programs well into the third quarter of 2022.

- Given its ongoing discussions, the Company will need to present *proforma* FY2021 accounts per market regulation, to reflect the potential impact of a transaction on its operations. Consequently and given the time needed to prepare, audit and review proforma accounts with market regulators, the Company is postponing the reporting of its FY2021 financial results to a later date in April.

Key News Flow and Milestones Expected Over the Next 12 Months

- Planned BLA submission of eryaspase in hypersensitive ALL (Q2 2022)
- Data from the randomized Phase 2 TRYbeCA-2 trial of eryaspase in TNBC (Q3 2022)
- Results from the Phase 1 rESPECT Trial of eryaspase in combination with mFOLFIRINOX in first-line pancreatic cancer (2H 2022)

Fourth Quarter and Full Year 2021 Conference Call Details

ERYTECH management will hold a conference call and webcast on **Monday, March 14, 2021 at 8:30am EDT** / **1:30 pm CET** to discuss the recent business and financial updates. Gil Beyen, CEO, Eric Soyer, CFO/COO, and Iman El-Hariry, CMO, will deliver a brief presentation, followed by a Q&A session.

The audio call is accessible via the below registering link: http://www.directeventreg.com/registration/event/1086874 (Conference ID : 1086874)

Once registered, participants will receive a unique access code and the call number details to join the teleconference.

The webcast can be followed live online via the link: https://edge.media-server.com/mmc/p/fjy26gtk.

An archived replay of the call will be available for 7 days by dialing **+ 1 855 859 2056**, Conference ID: **1086874#.**

An archive of the webcast will be available on ERYTECH's website, under the "Investors" section at investors.erytech.com

ERYTECH plans on attending the following upcoming investor conferences:

- Investor Access Conference, April 4-5, Paris
- Kempen Life Science Conference 2022, April 20-21, Amsterdam
- Jefferies 2022 Global Healthcare Conference, June 8-10, New York

About ERYTECH and eryaspase

ERYTECH is a clinical-stage biopharmaceutical company developing innovative red blood cell-based therapeutics for severe forms of cancer and orphan diseases. Leveraging its proprietary ERYCAPS® platform, which uses a novel technology to encapsulate drug substances inside red blood cells, ERYTECH is developing a pipeline of product candidates for patients with high unmet medical needs. ERYTECH's primary focus is on the development of product candidates that target the altered metabolism of cancer cells by depriving them of amino acids necessary for their growth and survival.

The Company's lead product candidate, eryaspase, which consists of L-asparaginase encapsulated inside donor-derived red blood cells, targets the cancer cells' altered asparagine and glutamine metabolism. The proof of concept of eryaspase as a cancer metabolism agent was established in different trials in acute lymphoblastic leukemia (ALL) and pancreatic cancer. An investigator sponsored Phase 2 trial (IST) evaluating the use of eryaspase in ALL patients who developed hypersensitivity reactions to pegylated asparaginase recently reported positive results, based on which the Company intends to request approval in the United States and potentially other territories. The Company is also pursuing a Phase 1 investigator-sponsored clinical trial in first-line pancreatic cancer.

Eryaspase received Fast Track designation from the U.S. Food and Drug Administration (FDA) for the treatment of advanced pancreatic cancer and treatment of acute lymphoblastic leukemia (ALL) patients who have developed hypersensitivity reactions to E. coli-derived pegylated asparaginase. The FDA and the European Medicines Agency have granted eryaspase orphan drug status for the treatment of pancreatic cancer and ALL.

ERYTECH produces its product candidates for treatment of patients in Europe at its GMP-approved manufacturing site in Lyon, France, and for patients in the United States at its GMP manufacturing site in Princeton, New Jersey, USA. Eryaspase is not an approved medicine.

ERYTECH is listed on the Nasdaq Global Select Market in the United States (ticker: ERYP) and on the Euronext regulated market in Paris (ISIN code: FR0011471135, ticker: ERYP). ERYTECH is part of the CAC Healthcare, CAC Pharma & Bio, CAC Mid & Small, CAC All Tradable, EnterNext PEA-PME 150 and Next Biotech indexes.
For more information, please visit www.erytech.com

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Forward-looking Information

This press release contains forward-looking statements including, but not limited to, statements with respect to the clinical development and regulatory plans of eryaspase including the timing of a potential BLA submission to the FDA for the treatment of acute lymphoblastic leukemia, the Company's ability to obtain regulatory approval for the treatment of patients with acute lymphoblastic leukemia who developed hypersensitivity reactions to PEG-asparaginase, the Company's ability to extend the indication scope of eryaspase, the Company's ability for additional funding under the OCABSA financing agreement or other financing attempts, and the Company's anticipated cash runway. Certain of these statements, forecasts and estimates can be recognized by the use of words such as, without limitation, "believes", "anticipates", "expects", "intends", "plans", "seeks", "estimates", "may", "will" and "continue" and similar expressions. Such statements, forecasts and estimates are based on various assumptions and assessments of known and unknown risks, uncertainties and other factors, which were deemed reasonable when made but may or may not prove to be correct. Actual events are difficult to predict and may depend upon factors that are beyond ERYTECH's control. There can be no guarantees with respect to pipeline product candidates that the candidates will receive the necessary regulatory approvals or that they will prove to be commercially successful. Therefore, actual results and timeline may turn out to be materially different from the anticipated future results, performance or achievements expressed or implied by such statements, forecasts and estimates. Further description of these risks, uncertainties and other risks can be found in the Company's regulatory filings with the French Autorité des Marchés Financiers (AMF), the Company's Securities and Exchange Commission (SEC) filings and reports, including in the Company's 2020 Document d'Enregistrement Universel filed with the AMF on March 8, 2021 and in the Company's Annual Report on Form 20-F filed with the SEC on March 8, 2021 and future filings and reports by the Company. Given these uncertainties, no representations are made as to the accuracy or fairness of such forward-looking statements, forecasts and estimates. Furthermore, forward-looking statements, forecasts and estimates only speak as of the date of this press release. Readers are cautioned not to place undue reliance on any of these forward-looking statements. ERYTECH disclaims any obligation to update any such forward-looking statement, forecast or estimates to reflect any change in ERYTECH's expectations with regard thereto, or any change in events, conditions or circumstances on which any such statement, forecast or estimate is based, except to the extent required by law. In addition, the COVID-19 pandemic and the associated containment efforts have had a serious adverse impact on the economy, the severity and duration of which are uncertain. Government stabilization efforts will only partially mitigate the consequences. The extent and duration of the impact on the Company's business and operations is highly uncertain, and that impact includes effects on its clinical trial operations and supply chain. Factors that will influence the impact on the Company's business and operations include the duration and extent of the pandemic, the extent of imposed or recommended containment and mitigation measures, and the general economic consequences of the pandemic. The pandemic could have a material adverse impact on the Company's business, operations and financial results for an extended period of time.