UNITED STATES SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

FORM 8-K

CURRENT REPORT

Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): September 21, 2020

Agios Pharmaceuticals, Inc. (Exact Name of Registrant as Specified in Charter)

			
	Delaware (State or Other Jurisdiction of Incorporation)	001-36014 (Commission File Number)	26-0662915 (IRS Employer Identification No.)
88 Sidney Street, Cambridge, MA (Address of Principal Executive Offices)			02139 (Zip Code)
	Registrant's tele	phone number, including area code: (61	7) 649-8600
	(Former Na	nme or Former Address, if Changed Since Last Ro	eport)
	appropriate box below if the Form 8-K filing is provisions (<i>see</i> General Instruction A.2. below)	2 2	ng obligation of the registrant under any of the
	Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)		
	Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)		
	Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))		
	Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))		
Securities	registered pursuant to Section 12(b) of the Act:		
Title of each class		Trading symbol(s)	Name of each exchange on which registered
Common Stock, Par Value \$0.001 per share		AGIO	Nasdaq Global Select Market
	y check mark whether the registrant is an emerg r Rule 12b-2 of the Securities Exchange Act of		5 of the Securities Act of 1933 (§230.405 of this
Emerging	growth company		

If an emerging growth company, 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 provided pursuant to Section 13(a) of the Exchange Act. \Box

Item 8.01 Other Events.

On September 21, 2020, Agios Pharmaceuticals, Inc. issued a press release announcing the final overall survival analysis from the global phase 3 ClarIDHy trial of TIBSOVO® (ivosidenib tablets) in previously treated cholangiocarcinoma patients with an isocitrate dehydrogenase 1 mutation. The full text of the press release issued in connection with this announcement is attached as Exhibit 99.1 to this Current Report on Form 8-K and incorporated herein by reference.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits.

Exhibit

No. Description

99.1 <u>Press release issued September 21, 2020.</u>

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 hereunto duly authorized.

Date: September 21, 2020

AGIOS PHARMACEUTICALS, INC.

By: /s/ Jacqualyn A. Fouse

Jacqualyn A. Fouse, Ph.D. Chief Executive Officer



Agios Announces Final Overall Survival Data from Phase 3 ClarIDHy Study of TIBSOVO® (ivosidenib tablets) in Previously Treated IDH1-Mutant Cholangiocarcinoma Patients

- Supplemental New Drug Application Planned for Submission in Q1 2021 -

CAMBRIDGE, Mass., September 21, 2020 – Agios Pharmaceuticals, Inc. (NASDAQ:AGIO), a leader in the field of cellular metabolism to treat cancer and rare genetic diseases, today announced the results of the final overall survival (OS) analysis from its global Phase 3 ClarIDHy trial of TIBSOVO® (ivosidenib tablets) in previously treated cholangiocarcinoma patients with an isocitrate dehydrogenase 1 (IDH1) mutation. A consistent trend in improved OS was observed in patients treated with TIBSOVO® compared to those randomized to placebo, but was not statistically significant. The OS endpoint can be affected by crossover, so these results should be taken in the context of the large proportion (70%) of patients in the placebo arm who crossed over to receive TIBSOVO® following radiographic disease progression; additional analyses performed to take crossover into account further support that TIBSOVO® may improve OS. The safety profile observed in the study was consistent with previously published data. OS was a secondary endpoint in the ClarIDHy study; as previously announced, the study met its primary endpoint of progression-free survival (HR 0.37, p-value < 0.0001).

"Advanced cholangiocarcinoma is a rapidly progressing, aggressive disease with a grim prognosis for patients," said Chris Bowden, M.D., chief medical officer at Agios. "The data from the ClarIDHy Phase 3 study show that treatment with TIBSOVO® has the potential to lengthen time to disease progression and have a clinically meaningful impact on life expectancy for patients with IDH1-mutant cholangiocarcinoma. We will collaborate closely with regulators to advance this potential new oral, targeted treatment option for patients."

"We are tremendously grateful to the patients who participated in this study," continued Dr. Bowden. "Part of their legacy is their commitment to contributing to medical advances on behalf of others who will face this devastating disease and who currently have limited treatment options."

The company plans to submit a supplemental new drug application for TIBSOVO® in previously treated IDH1-mutant cholangiocarcinoma in the first quarter of 2021 and intends to work closely with regulators on next steps. A full analysis of the ClarIDHy OS data will be submitted for presentation at a future medical meeting.

ClarIDHy Phase 3 Trial

The ClarIDHy trial is a global, randomized Phase 3 trial in previously treated IDH1-mutant cholangiocarcinoma patients who have documented disease progression following one or two systemic therapies in the advanced setting. Patients were randomized 2:1 to receive either single-agent TIBSOVO® 500 mg once daily or placebo with crossover to TIBSOVO® permitted at the time of documented radiographic progression per RECIST 1.1. As of the May 30, 2020 data cutoff, 185 patients were randomized, with 124 patients in the TIBSOVO® arm and 61 patients in the placebo arm. Forty-three patients randomized to placebo (70%) crossed over to open-label TIBSOVO® upon radiographic disease progression and unblinding.



The primary endpoint of the ClarIDHy trial is progression-free survival (PFS) as evaluated by independent radiology review. Results from the trial demonstrated a statistically significant improvement in PFS among patients randomized to TIBSOVO® compared with placebo patients (hazard ratio [HR] 0.37; 95% CI 0.25 - 0.54, p<0.0001), with a median PFS of 2.7 months in the TIBSOVO® arm versus a median PFS of 1.4 months in the placebo arm. The estimated PFS rate was 32% at six months and 22% at 12 months for patients randomized to TIBSOVO®, while no patients randomized to placebo were free from progression or death beyond six months as of the data cut-off. Secondary endpoints include investigator-evaluated PFS, safety and tolerability, overall response rate, overall survival, duration of response, pharmacokinetics, pharmacodynamics and quality of life assessments.

Data from the study were <u>previously presented</u> at the European Society for Medical Oncology Congress (ESMO), held in September 2019 in Barcelona, Spain, and <u>published</u> in *The Lancet Oncology* on May 13, 2020. Based on these data, the National Comprehensive Cancer Network (NCCN) guidelines, the French National Treatment Guidelines for Biliary Cancer and the Italian Clinical Practice Guidelines on Cholangiocarcinoma were updated to recommend treatment with TIBSOVO® for patients with advanced previously treated IDH1-mutant cholangiocarcinoma.

TIBSOVO® is not approved in any country for the treatment of patients with previously treated advanced IDH1-mutant cholangiocarcinoma.

About Cholangiocarcinoma

Cholangiocarcinoma is a rare cancer of the bile ducts within and outside of the liver. Cases that occur within the liver are known as intrahepatic cholangiocarcinoma (IHCC) and those that occur outside the liver are considered extrahepatic. IDH1 mutations occur in approximately 10% of cholangiocarcinoma cases. Current treatment options for localized disease include surgery, radiation and/or other ablative treatments. There are no approved systemic therapies for IDH1-mutated cholangiocarcinoma and limited chemotherapy options are available in the advanced setting. Gemcitabine-based chemotherapy is often recommended for newly diagnosed advanced or metastatic disease.

About TIBSOVO® (ivosidenib)

TIBSOVO® is indicated for the treatment of acute myeloid leukemia (AML) with a susceptible isocitrate dehydrogenase-1 (IDH1) mutation as detected by an FDA-approved test in:

- Adult patients with newly-diagnosed AML who are ³75 years old or who have comorbidities that preclude use of intensive induction chemotherapy.
- Adult patients with relapsed or refractory AML.



IMPORTANT SAFETY INFORMATION

WARNING: DIFFERENTIATION SYNDROME

Patients treated with TIBSOVO® have experienced symptoms of differentiation syndrome, which can be fatal if not treated. Symptoms may include fever, dyspnea, hypoxia, pulmonary infiltrates, pleural or pericardial effusions, rapid weight gain or peripheral edema, hypotension, and hepatic, renal, or multi-organ dysfunction. If differentiation syndrome is suspected, initiate corticosteroid therapy and hemodynamic monitoring until symptom resolution.

WARNINGS AND PRECAUTIONS

Differentiation Syndrome: See Boxed WARNING. In the clinical trial, 25% (7/28) of patients with newly diagnosed AML and 19% (34/179) of patients with relapsed or refractory AML treated with TIBSOVO® experienced differentiation syndrome. Differentiation syndrome is associated with rapid proliferation and differentiation of myeloid cells and may be life-threatening or fatal if not treated. Symptoms of differentiation syndrome in patients treated with TIBSOVO® included noninfectious leukocytosis, peripheral edema, pyrexia, dyspnea, pleural effusion, hypotension, hypoxia, pulmonary edema, pneumonitis, pericardial effusion, rash, fluid overload, tumor lysis syndrome, and creatinine increased. Of the 7 patients with newly diagnosed AML who experienced differentiation syndrome, 6 (86%) patients recovered. Of the 34 patients with relapsed or refractory AML who experienced differentiation syndrome, 27 (79%) patients recovered after treatment or after dose interruption of TIBSOVO®. Differentiation syndrome occurred as early as 1 day and up to 3 months after TIBSOVO® initiation and has been observed with or without concomitant leukocytosis.

If differentiation syndrome is suspected, initiate dexamethasone 10 mg IV every 12 hours (or an equivalent dose of an alternative oral or IV corticosteroid) and hemodynamic monitoring until improvement. If concomitant noninfectious leukocytosis is observed, initiate treatment with hydroxyurea or leukapheresis, as clinically indicated. Taper corticosteroids and hydroxyurea after resolution of symptoms and administer corticosteroids for a minimum of 3 days. Symptoms of differentiation syndrome may recur with premature discontinuation of corticosteroid and/or hydroxyurea treatment. If severe signs and/or symptoms persist for more than 48 hours after initiation of corticosteroids, interrupt TIBSOVO® until signs and symptoms are no longer severe.

QTc Interval Prolongation: Patients treated with TIBSOVO® can develop QT (QTc) prolongation and ventricular arrhythmias. One patient developed ventricular fibrillation attributed to TIBSOVO®. Concomitant use of TIBSOVO® with drugs known to prolong the QTc interval (e.g., anti-arrhythmic medicines, fluoroquinolones, triazole anti-fungals, 5-HT3 receptor antagonists) and CYP3A4 inhibitors may increase the risk of QTc interval prolongation. Conduct monitoring of electrocardiograms (ECGs) and electrolytes. In patients with congenital long QTc syndrome, congestive heart failure, or electrolyte abnormalities, or in those who are taking medications known to prolong the QTc interval, more frequent monitoring may be necessary.

Interrupt TIBSOVO® if QTc increases to greater than 480 msec and less than 500 msec. Interrupt and reduce TIBSOVO® if QTc increases to greater than 500 msec. Permanently discontinue TIBSOVO® in patients who develop QTc interval prolongation with signs or symptoms of life-threatening arrhythmia.



Guillain-Barré Syndrome: Guillain-Barré syndrome occurred in <1% (2/258) of patients treated with TIBSOVO® in the clinical study. Monitor patients taking TIBSOVO® for onset of new signs or symptoms of motor and/or sensory neuropathy such as unilateral or bilateral weakness, sensory alterations, paresthesias, or difficulty breathing. Permanently discontinue TIBSOVO® in patients who are diagnosed with Guillain-Barré syndrome.

ADVERSE REACTIONS

- The most common adverse reactions including laboratory abnormalities (320%) were hemoglobin decreased (60%), fatigue (43%), arthralgia (39%), calcium decreased (39%), sodium decreased (39%), leukocytosis (38%), diarrhea (37%), magnesium decreased (36%), edema (34%), nausea (33%), dyspnea (32%), uric acid increased (32%), potassium decreased (32%), alkaline phosphatase increased (30%), mucositis (28%), aspartate aminotransferase increased (27%), phosphatase decreased (25%), electrocardiogram QT prolonged (24%), rash (24%), creatinine increased (24%), cough (23%), decreased appetite (22%), myalgia (21%), constipation (20%), and pyrexia (20%).
- In patients with newly diagnosed AML, the most frequently reported Grade ³3 adverse reactions (³5%) were fatigue (14%), differentiation syndrome (11%), electrocardiogram QT prolonged (11%), diarrhea (7%), nausea (7%), and leukocytosis (7%). Serious adverse reactions (³5%) were differentiation syndrome (18%), electrocardiogram QT prolonged (7%), and fatigue (7%). There was one case of posterior reversible encephalopathy syndrome (PRES).
- In patients with relapsed or refractory AML, the most frequently reported Grade ³3 adverse reactions (³5%) were differentiation syndrome (13%), electrocardiogram QT prolonged (10%), dyspnea (9%), leukocytosis (8%), and tumor lysis syndrome (6%). Serious adverse reactions (³5%) were differentiation syndrome (10%), leukocytosis (10%), and electrocardiogram QT prolonged (7%). There was one case of progressive multifocal leukoencephalopathy (PML).

DRUG INTERACTIONS

Strong or Moderate CYP3A4 Inhibitors: Reduce TIBSOVO® dose with strong CYP3A4 inhibitors. Monitor patients for increased risk of QTc interval prolongation.

Strong CYP3A4 Inducers: Avoid concomitant use with TIBSOVO®.

Sensitive CYP3A4 Substrates: Avoid concomitant use with TIBSOVO®.

QTc Prolonging Drugs: Avoid concomitant use with TIBSOVO®. If co-administration is unavoidable, monitor patients for increased risk of QTc interval prolongation.



LACTATION

Because many drugs are excreted in human milk and because of the potential for adverse reactions in breastfed children, advise women not to breastfeed during treatment with TIBSOVO® and for at least 1 month after the last dose.

Please see full Prescribing Information, including Boxed WARNING.

About Agios

Agios is focused on discovering and developing novel investigational medicines to treat malignant hematology, solid tumors and rare genetic diseases through scientific leadership in the field of cellular metabolism. In addition to an active research and discovery pipeline across these three therapeutic areas, Agios has two approved oncology precision medicines and multiple first-in-class investigational therapies in clinical and/or preclinical development. For more information, please visit the company's website at www.agios.com.

Cautionary Note Regarding Forward-Looking Statements

This press release contains forward-looking statements within the meaning of The Private Securities Litigation Reform Act of 1995. Such forwardlooking statements include those regarding: the potential benefits of TIBSOVO® (ivosidenib tablets); Agios' plans to submit a supplemental new drug application for TIBSOVO® in previously treated IDH1 mutant cholangiocarcinoma in the first quarter of 2021; the expected timing for the report of the full analysis of the ClarIDHy overall survival data; and Agios' strategic plans and prospects. The words "anticipate," "believe," "estimate," "expect," "intend," "may," "plan," "predict," "project," "would," "could," "potential," "possible," "hope" and similar expressions are intended to identify forwardlooking statements, although not all forward-looking statements contain these identifying words. Such statements are subject to numerous important factors, risks and uncertainties that may cause actual events or results to differ materially from Agios' current expectations and beliefs. For example, there can be no guarantee that any product candidate Agios or its collaborators is developing will successfully commence or complete necessary preclinical and clinical development phases, or that development of any of Agios' product candidates will successfully continue. There can be no guarantee that any positive developments in Agios' business will result in stock price appreciation. Management's expectations and, therefore, any forward-looking statements in this press release could also be affected by risks and uncertainties relating to a number of other important factors, including, without limitation: risks and uncertainties related to the impact of the COVID-19 pandemic to Agios' business, operations, strategy, goals and anticipated milestones, including its ongoing and planned research activities, ability to conduct ongoing and planned clinical trials, clinical supply of current or future drug candidates, commercial supply of current or future approved products, and launching, marketing and selling current or future approved products; Agios' results of clinical trials and preclinical studies, including subsequent analysis of existing data and new data received from ongoing and future studies; the content and timing of decisions made by the U.S. FDA, the EMA or other regulatory authorities, investigational review boards at clinical trial sites and publication review bodies; Agios' ability to obtain and maintain requisite regulatory approvals and to enroll patients in its planned clinical trials; unplanned cash requirements and expenditures; competitive factors; Agios' ability to obtain, maintain and enforce patent and other



intellectual property protection for any product candidates it is developing; Agios' ability to maintain key collaborations; and general economic and market conditions. These and other risks are described in greater detail under the caption "Risk Factors" included in Agios' public filings with the Securities and Exchange Commission. Any forward-looking statements contained in this press release speak only as of the date hereof, and Agios expressly disclaims any obligation to update any forward-looking statements, whether as a result of new information, future events or otherwise, except as required by law.

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