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

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**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 October 2021  
Commission File Number: 001-39522

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**COMPASS PATHWAYS PLC**

(Translation of registrant's name into English)

**3rd Floor**  
**1 Ashley Road**  
**Altrincham**  
**Cheshire WA14 2DT**  
**United Kingdom**  
**Tel: +1 (646) 905-3974**  
(Address of principal executive offices)

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Indicate by check mark whether the registrant files or will file annual reports under cover 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):

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):

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## INFORMATION CONTAINED IN THIS FORM 6-K REPORT

On October 20, 2021, COMPASS Pathways Plc (the "Company") issued a press release titled "Open-label study of COMP360 psilocybin therapy for depression in cancer patients demonstrates feasibility of simultaneous psilocybin administration in small groups." A copy of such press release is attached hereto as Exhibit 99.1 and is incorporated herein by reference.

The information in this report included as Exhibit 99.1 and incorporated herein by reference shall not be deemed "filed" for the purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), or otherwise subject to the liabilities of that section. It may only be incorporated by reference in another filing under the Exchange Act or the Securities Act of 1933, as amended, if such subsequent filing specifically references the information furnished pursuant to this report.

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### EXHIBITS

Exhibit	Description
99.1	<a href="#">Press Release dated October 20, 2021</a>

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## Open-label study of COMP360 psilocybin therapy for depression in cancer patients demonstrates feasibility of simultaneous psilocybin administration in small groups

Investigator-initiated study shows remission in major depression symptoms for 50% of participants

London, UK – 20 October 2021

COMPASS Pathways plc (Nasdaq: CMPS) (“COMPASS”), a mental health care company dedicated to accelerating patient access to evidence-based innovation in mental health, welcomed the topline data shared today from an open-label study of psilocybin therapy for depression in cancer patients. Within one week of a single administration of COMP360 psilocybin therapy, 50% of participants achieved remission in depression symptoms, which was sustained for the eight week follow-up period.

This investigator-initiated feasibility study was conducted by Maryland Oncology Hematology at the Aquilino Cancer Center in Rockville, Maryland, USA. It was an open-label study involving 30 patients with cancer diagnosis and major depressive disorder (MDD), all of whom completed the study. Half of the participants had previously been treated for their current episode of depression with antidepressants and all were receiving active treatment for cancer; 19 participants had no previous experience with psychedelic substances. Patients were given a 25mg dose of COMP360 psilocybin in conjunction with psychological support from specially trained therapists, following the COMP360 psilocybin therapy protocol. Unlike earlier psilocybin therapy trials for depression in cancer, this study was not restricted to patients with late-stage cancer. The Maryland team also pioneered simultaneous group administration in a cancer care centre, with two to four patients being given psilocybin at the same time, with 1:1 therapist support. This tested the value of group support for cancer patients as well as the potential for increased scalability in providing psilocybin therapy in real world settings.

COMP360 psilocybin therapy was found to be generally well tolerated with no treatment-related serious adverse events. Adverse effects seen on the day of dosing were as expected from experience in healthy volunteer groups and included headache, changes in sensory perception and mood alteration.

Patients were assessed using the Montgomery-Åsberg Depression Rating Scale (MADRS), a clinician-administered symptom questionnaire. A sustained response rate (a decrease of  $\geq 50\%$  in the MADRS score from baseline observed at any visit up to and including week 3, and also fulfilled at week 8) was seen by 24 patients; 15 patients showed remission of depression symptoms (a MADRS score  $< 10$ ) one week after a single dose of psilocybin, which was sustained up to eight weeks. The 30 patients in the study began with an average MADRS score of 25.9, representing moderate depression. After psilocybin therapy, the average score dropped by 19.1 points. The study investigators noted that this was an open-label study in which neither patients nor raters were blinded, so there is a significant risk that the results incorporate a large expectancy bias.

Dr Manish Agrawal, medical oncologist, Co-director of Clinical Research at the Aquilino Cancer Center, and the trial's Principal Investigator, said: “A cancer diagnosis can change the course of a patient’s life. For complete cancer care, we need to focus on whole-person healing and include the mental wellbeing of our patients. This is not widely addressed today, but it’s time to do something about it. These study results have shown that psilocybin therapy may be helpful with MDD in cancer, and we look forward to doing further analysis and following up with additional studies. While it’s premature to draw any definitive conclusions from this study, simultaneous administration appears to be well tolerated and feasible, and the results are promising and worthy of further research.”

Professor Guy Goodwin, Chief Medical Officer, COMPASS Pathways, said: "These preliminary findings suggest COMP360 psilocybin therapy was well tolerated by cancer patients with major depressive disorder. It is promising to see that this may be a feasible fast-acting therapy for depressed patients with a significant physical co-morbidity. This would certainly be welcome in conditions where depression is difficult to treat in a timely way."

Professor Goodwin added: "This open-label MDD study is very different from the randomised, controlled, double-blinded phase IIb study that COMPASS has conducted for patients with treatment-resistant depression. Nevertheless, it has given a positive signal of the potential for COMP360 psilocybin therapy, and we are delighted to see that a number of patients showed signs of improvement. We are now considering how we take this forward with future studies as we continue to develop a broad portfolio of therapies in areas of significant unmet need in mental health care."

-Ends-

### About COMPASS Pathways

COMPASS Pathways plc (Nasdaq: CMPS) is a mental health care company dedicated to accelerating patient access to evidence-based innovation in mental health. Our focus is on improving the lives of those who are suffering with mental health challenges and who are not helped by current treatments. We are pioneering the development of a new model of psilocybin therapy, in which our proprietary formulation of synthetic psilocybin, COMP360, is administered in conjunction with psychological support. COMP360 has been designated a Breakthrough Therapy by the US Food and Drug Administration (FDA), for treatment-resistant depression (TRD), and we are currently conducting a phase IIb clinical trial of psilocybin therapy for TRD, in 22 sites across Europe and North America. We are headquartered in London, UK, with offices in New York, US. Our vision is a world of mental wellbeing. [www.compasspathways.com](http://www.compasspathways.com)

### Availability of other information about COMPASS Pathways

Investors and others should note that we communicate with our investors and the public using our website ([www.compasspathways.com](http://www.compasspathways.com)), our investor relations website ([ir.compasspathways.com](http://ir.compasspathways.com)), and on social media (LinkedIn), including but not limited to investor presentations and investor fact sheets, US Securities and Exchange Commission filings, press releases, public conference calls and webcasts. The information that we post on these channels and websites could be deemed to be material information. As a result, we encourage investors, the media, and others interested in us to review the information that is posted on these channels, including the investor relations website, on a regular basis. This list of channels may be updated from time to time on our investor relations website and may include additional social media channels. The contents of our website or these channels, or any other website that may be accessed from our website or these channels, shall not be deemed incorporated by reference in any filing under the Securities Act of 1933.

### Forward-looking statements

This press release contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995, as amended. In some cases, forward-looking statements can be identified by terminology such as "may", "might", "will", "could", "would", "should", "expect", "intend", "plan", "objective", "anticipate", "believe", "contemplate", "estimate", "predict", "potential", "continue" and "ongoing," or the negative of these terms or other comparable terminology, although not all forward-looking statements contain these words. Forward-looking statements include express or implied statements relating to, among other things, COMPASS's business strategy and goals, the benefits of additional patent protection to help achieve these goals, COMPASS's expectations regarding the benefits of its psilocybin therapy; and the potential for topline, preliminary open label data from an investigator-initiated study using COMP360 psilocybin therapy to be predictive of results in other trials involving COMP360. The forward-looking statements in this press release are neither promises nor guarantees, and you should not place undue reliance on these forward-looking statements because they involve known and unknown risks, uncertainties, and other factors, many of which are beyond

COMPASS's control and which could cause actual results, levels of activity, performance or achievements to differ materially from those expressed or implied by these forward-looking statements.

These risks, uncertainties, and other factors include, among others: preclinical research and clinical development is lengthy and uncertain, and therefore our preclinical studies and clinical trials may be delayed or terminated, or may never advance to or in the clinic; and those risks and uncertainties described under the heading "Risk Factors" in COMPASS's annual report on Form 20-F filed with the US Securities and Exchange Commission (SEC) on 9 March 2021 and in subsequent filings made by COMPASS with the SEC, which are available on the SEC's website at [www.sec.gov](http://www.sec.gov). Except as required by law, COMPASS disclaims any intention or responsibility for updating or revising any forward-looking statements contained in this press release in the event of new information, future developments or otherwise. These forward-looking statements are based on COMPASS's current expectations and speak only as of the date hereof.

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