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

September 2023

Commission File Number: 001-37925

GDS Holdings Limited

(Registrant's name)

F4/F5, Building C, Sunland International No. 999 Zhouhai Road Pudong, Shanghai 200137 People's Republic of China (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 □

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.

Date: September 29, 2023

GDS Holdings Limited

By: /s/ William Wei Huang Name: William Wei Huang

Title: Chief Executive Officer