We present [N II] and Hα images and high resolution long–slit spectra of the planetary nebula IC 4846, which reveal, for the first time, a velocity difference of ∼10 km s\(^{-1}\) is found between the systemic velocity of the precessing jets and the centroid velocity of the nebula, as recently reported for Hu 2−1. We propose that this difference is due to orbital motion of the ejecting source in a binary central star, with 30 AU and period \(\leq 100\) yr estimated for the binary, linking the central stars of both planetary nebulae.