We give a characterization of the family of complex Hénon maps with a semi-parabolic fixed point that arise as small perturbations of a quadratic polynomial with a parabolic fixed point. We prove that the Hénon map has connected Julia set $J$ which is homeomorphic to a quotiented solenoid. The Julia set $J^+$ is homeomorphic to a quotiented 3-sphere with a certain solenoid removed. We will explain where these maps sit in the whole parameter space of complex Hénon maps and explore other regions of connectivity, with similar properties. (Received September 16, 2014)