ABSTRACT. We consider non-contracting p-adic Lie groups and we establish equivalence relations and connections among the following classes of p-adic Lie groups: (1) non-contracting; (2) type R; (3) distal and (4) Tortrat. We also deduce that non-contracting p-adic Lie groups are unimodular and IN p-adic Lie groups are non-contracting.