Number of units in one mole of any substance equal to $6.022*10^{23}$ (Avogadro's constant). Thus, the quantity of potassium (K) atoms in 0.0317 mol of substance can be calculated by following way:

N(K) = $6.022*10^{23}$ mol^(-1) * 0.0317 mol = $1.909*10^{22}$ atoms.

Answer: $1.909*10^{22}$ atoms are in 0.0317 mol of potassium (K).