An involutive residuated lattice (IRL) is a lattice-ordered monoid possessing residual operations and a dualizing element $d$. The involution, i.e., the function $x \mapsto x\setminus d$, of an IRL induces a lattice anti-isomorphism, and is also an order-2 bijection of the underlying set. We examine which such bijections may be induced by the involution of an IRL. (Received August 01, 2009)